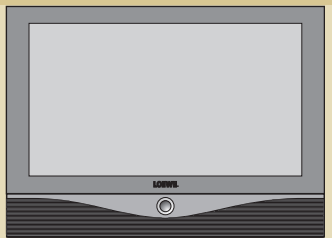
Operating Instructions.



- Spheros 32 HD
- Spheros 32 HD/DR+
- Spheros 37 HD
- Spheros 37 HD/DR+
- Xelos SL 32 HD
- Xelos SL 32 HD/DR+
- Xelos SL 37 HD
- Xelos SL 37 HD/DR+

TV.

233–31963.021

LOEWE.

Dear Customer,

Congratulations on your purchase of this high quality Loewe television. Loewe stands for innovative design, excellent quality and exceptional functionality. To ensure that your product retains these properties for as long as possible, please follow the operating and safety instructions contained in this manual.
This instruction manual will help you to get started.
Your Loewe Team

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Functions marked by ✳ are not available in all types of TV sets but can usually be retrofitted. Ask your dealer if you are interested.

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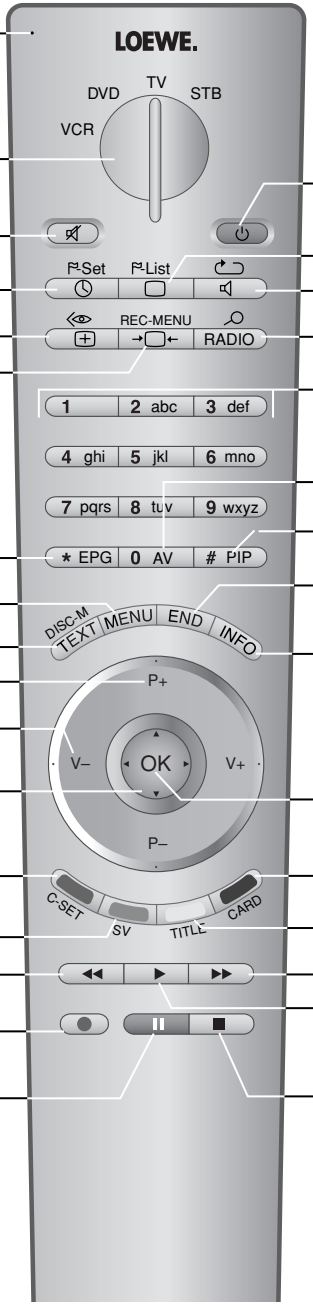
dts
Is a registered trademark of Digital Theater Systems Inc.

Acoustimass® is a registered trademark of the Bose Corporation.

Remote control RC 3 – TV functions



Control LED for programming the remote control

Change-over switch for operation of TV, VCR, DVD recorder/player or Set Top Box

Sound off/on (mute)

Timer overview

Video operation with video operating lin on/off

Set picture format

EPG on/off
/PhotoViewer: turn picture

Call menu /in menu: back

Teletext mode on/off

P+/P– select program up/down

V–/V+ volume quieter/louder

in menu: select/set
/in the PhotoViewer overview: select picture
/Digital Recorder: LOEWE dialog on

✳ red key: personal teletext pages
/Digital Recorder: DR archive on/off
/in the PhotoViewer overview: previous page of overview

✳ green key: call standard settings

Digital Recorder: bookmark back/rewind
/PhotoViewer: previous picture

Digital Recorder: record immediately

TV without Digital Recorder: freeze frame on
Digital Recorder: freeze frame/pause
(delayed viewing: start)
/PhotoViewer: stop slide show

Switch on/off – in standby

Picture menu on/off
/PhotoViewer: PhotoViewer operation on/off

Sound menu on/off

Radio mode on/off

Select programme directly
in menu: enter numbers or letters

Call AV selection

PIP on/off
/PhotoViewer: zoom picture

Status display on/off
/in menu: hide menu
/PhotoViewer: show/hide picture info

Call main information
/in menu: Info texts on/off
/PhotoViewer: PhotoViewer operating instructions

Station table list on
/in menu: confirm
/PhotoViewer: call photo from the PhotoViewer overview
/Call PhotoViewer overview

blue key: programme info on/off ✳
/in the PhotoViewer overview: next page of overview

yellow key: last station ✳

Digital Recorder: bookmark forward/fast forward
/PhotoViewer: next picture

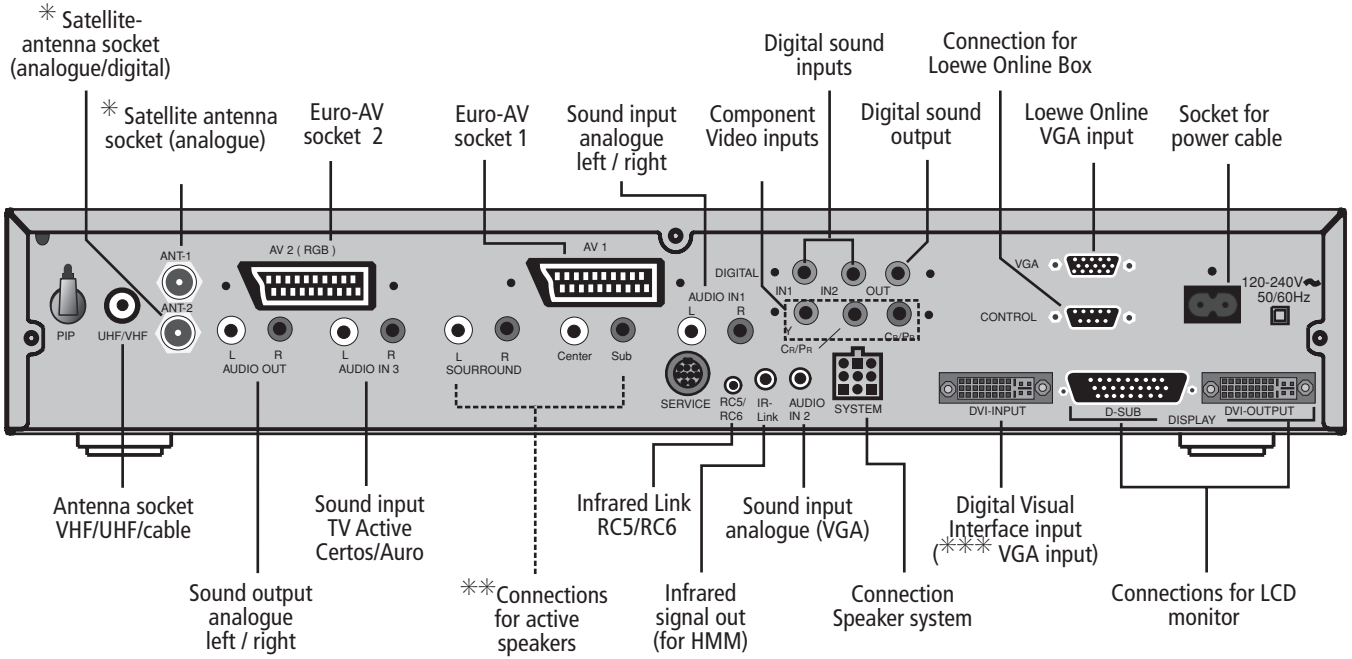
TV without Digital Recorder: freeze frame off
Digital Recorder: play/set bookmark
/PhotoViewer: start slide show

TV without Digital Recorder: freeze frame on
Digital Recorder: stop (live picture)
/PhotoViewer: stop slide show

✳ The drive buttons can be switched for operating a DVD player/recorder or a VCR.

✳ You can assign other functions to the color keys for the TV mode.

Rear side connections Signal Box



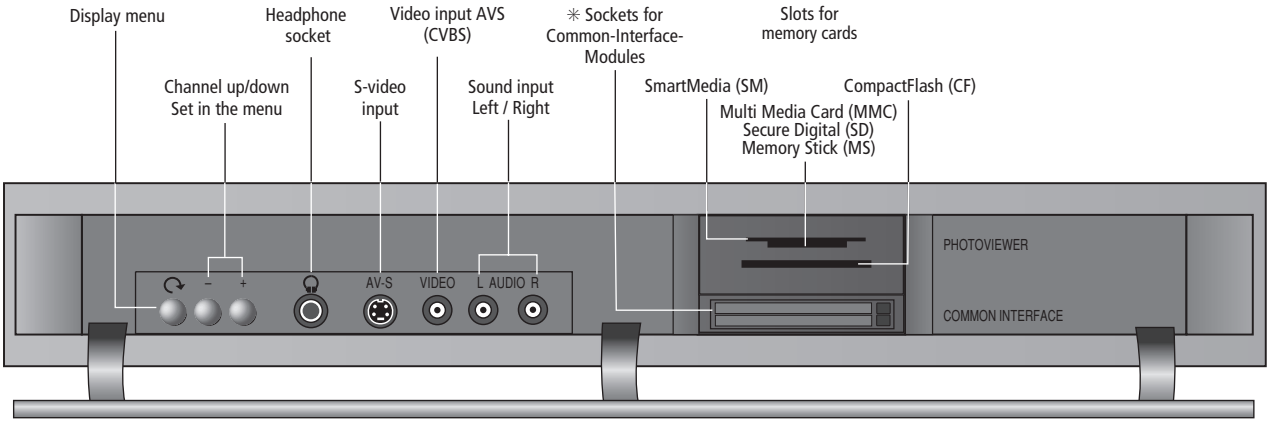
✳ Only in the set version with "Digital-TV upgrade kit 2 Sat/Twin-Sat CI".

✳✳ The "SURROUND", "Center" and "Sub" sockets are only activated when equipped with Dolby Digital (AC3).

✳✳✳ VGA Connection via VGA/DVI adapter cable.

Operation on the Signal Box

Open control panel



✳ Only in the set version with "Digital-TV upgrade kit 2 Sat/Twin-Sat CI".

Setup

Installation possibilities:

- **as a desktop unit**
  – on a sideboard or table (Xelos SL 32 HD/37 HD.
  – Using a rotary table stand (Motor Unit) you can adjust your Spheros 32 HD or 37 HD easily with the remote control to suit your sitting position.

- **on a Flat-TV F-Stand**
  as a standing unit, manually rotatable.

- **Spheros 32 HD or 37 HD on the System Rack Cube 1, Cube 2**
  with motor control for rotating the TV set and shelves for DVD player, VCR etc.

- **as a wall unit**, the flat screen (LCD) can be hung on the wall like a picture. It can be tilted up to 5°.

Auxiliary devices such as VCRs, DVD players, Pay-TV decoders, Loewe sound systems Concertos/Certos can be connected to the Spheros Signal Box.

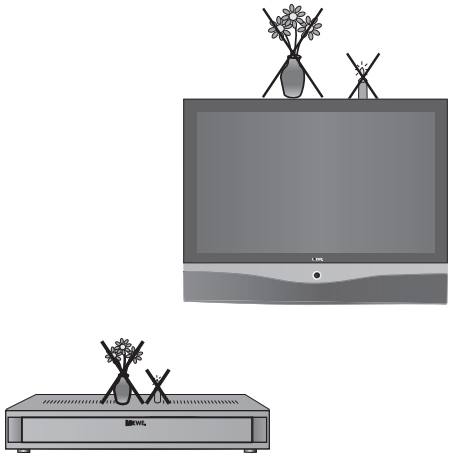
Operation
We have designed the TV set in such a way that it is easy to operate with menus. If you need information on operating the set, simply press the **i** key on the remote control to display the help texts, which will quickly enable you to understand the system.

If it is a matter of operating the TV, you can access a function directly from the index. This saves you from having to read through detailed operating instructions and is the reason, why this operating manual only explains the most important operating steps.

For your safety ...

For your own safety and to avoid unnecessary damage to your equipment, protect it against
- moisture, splashing and dripping water
- shock and mechanical stress
- cold, heat and extreme temperature fluctuations
- dust
- covering which obstructs air circulation
- tampering with the insides

Never place vases filled with water, lit candles etc. on the TV set.



If you have moved the set out of the cold into a warm environment, leave it switched off for about an hour because of the possible forming of condensation.

Lightning can damage your TV through the antenna and the mains. Therefore pull out the antenna and power plugs during thunderstorms and in longer periods of absence.

Only transport the unit in an upright position.

- Avoid metal parts, needles, paper clips, liquids, wax or similar getting into the TV set through the air venting slits in the rear panel. This can lead to short-circuits and possibly to fire. If something should get into the set switch it off immediately at the on/off switch, pull out the power plug and notify the after-sales service for inspection.

- The TV power plug must be easily accessible so that the TV can be disconnected from the power supply at all times.

- Lay the power cable so that it cannot be damaged. The power cable may not be kinked or laid over sharp edges, not stood on and not exposed to chemicals, the latter also applies to the device as a whole. A power cable with damaged insulation can lead to electric shocks and is a fire risk.

- When removing the power plug, pull the plug housing and not the cable. The wires in the plug could be damaged and cause a short circuit the next time it is plugged in.

- Your new TV has been built exclusively for use in a home environment. The warranty covers this normal use of the device.

- Only have repairs done by the Loewe Service.

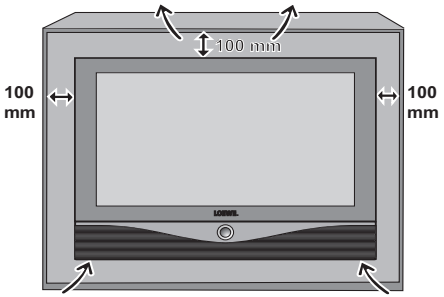
→

Setup and cleaning

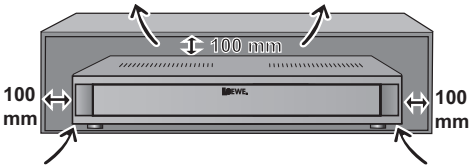
Only hold the housing for transporting and never the panel.
The front panel and the LCD screen underneath it are made of glass and may break if not properly handled. If the LCD screen is damaged (not the glass panel) and in case of leaking liquid crystal, wear rubber gloves to carry the device.
In case of contact with the skin, wash the affected areas thoroughly with water.

Note
During the whole period of use, pixel errors may appear on the screen in the form of lighter or darker spots, this phenomenon is typical for an LCD display. It is not a defect.

- Install the Spheros Signal Box and the screen with room for air circulation. The air vents may not be covered by objects such as magazines, table cloths, curtains etc.



- Check the strength of furniture (e.g. tables, sideboards) before placing the set on it.
- Take the swivel range into account when installing a set with a rotary motor unit.
- Make sure no bright light or sunlight falls onto the screen otherwise reflections will be caused and the brilliance of the picture lost.
- Do not place the Signal Box on edge but on its feet.

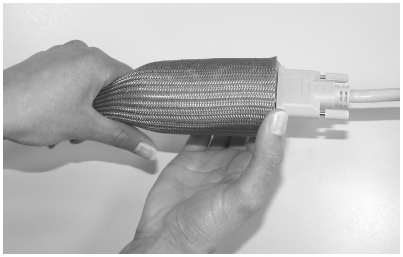


- Do not place naked flames, e.g. lit candles, on the set.

Note on installing the flat screen (LCD):
Observe the enclosed installation instructions depending on the type of set you have purchased and installation.
With the Xelos SL 32 HD and 37 HD types a stand (Xelos table stand) is usually delivered for the LCD.

Handling the mesh tube

Use the enclosed mesh tube to lay the screen, base, wall holder or rack cables tidily and guide the hose with the cables to the Signal box. This looks more elegant.
The diameter of the mesh tube widens when it is pushed together lengthwise (see figure). This makes it easier to push through the cables with plugs.



Cleaning the front panel

(Only for Spheros 32/37 HD)
The inside of the front panel and the LCD screen need to be cleaned from time to time. Only remove the front panel when the TV has been switched off and has cooled down. The metal frame of the LCD panel may reach a temperature of up to 60°C in operation !

- Hold the glass panel at the bottom right and left and pull the panel out of the guide about 4 cm.

- Push the glass panel up evenly.
- Unhook the glass panel at the top and remove.

Use a damp, soft cloth to clean the LCD screen and a glass cleaner for the glass panel.

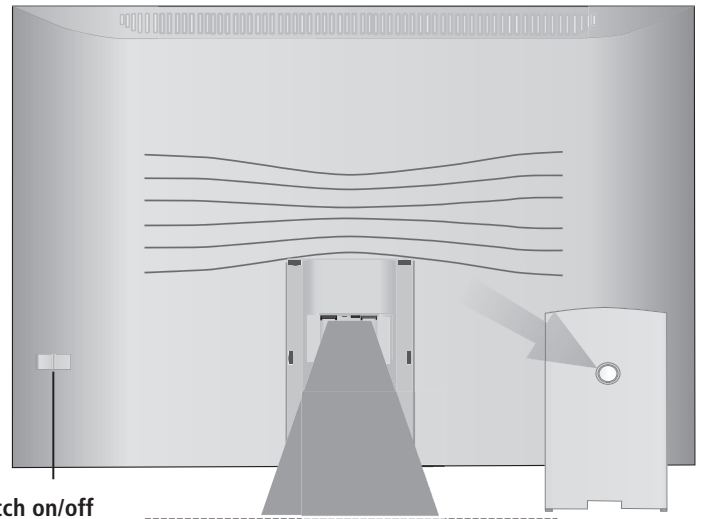
Replacing the front panel:

- Make sure you do not damage the LCD screen with the fastening bolts on the front panel.
- Hang the glass panel into the guide rails at the top with both fastening bolts.
- Then press the glass panel down lightly onto the screen until it snaps into place.

Clean the other components such as the remote control and signal box with a damp, soft cloth only (without aggressive and abrasive cleaning agents).

Connect LCD screen and antenna(e) to the Signal Box

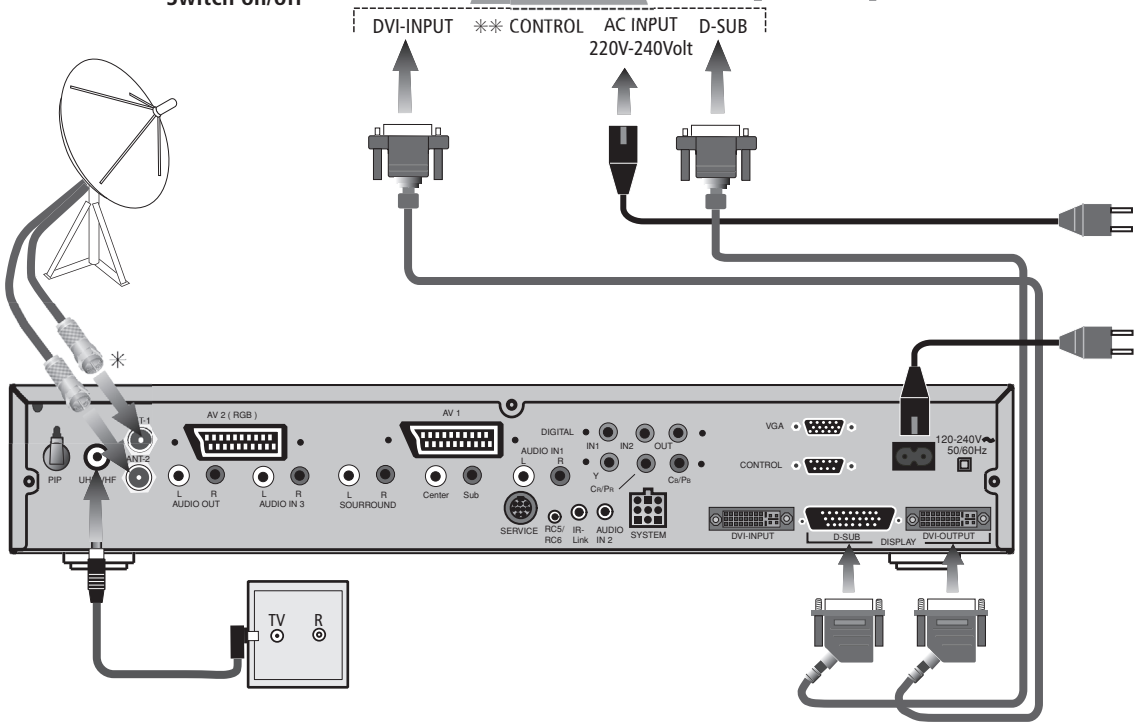
TFT-LCD monitor



Switch on/off

Removing the connection cover
Do **not** just pull the cover (fig.) back over the connections.
Reach into the opening in the cover and pull it back slightly at the top until it snaps open. Then pull the cover up and out.

Connect both the system cables and the power cable to the LCD screen as shown in the figure.
Then replace the cover.

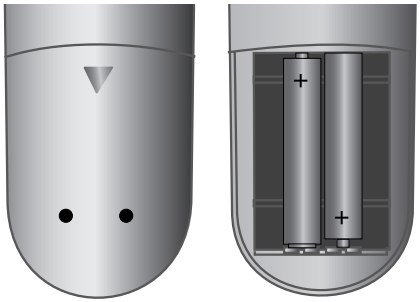


✳ The antenna sockets 1 and 2 are only available in the set version with "Digital-TV upgrade kit 2 Sat/Twin-Sat CI".
✳✳ The connection socket "CONTROL" is only available for Spheros 32/37 HD and designed for a Motor Unit!
Note: For optimum picture resolution use the "Digital Visual Interface Input DVI" only connecting cables less than 2 meters long.

Initial installation

Batteries

To insert or change the batteries, press the point marked by an embossed arrow. Push the cover of the battery compartment down and remove it. Insert the batteries of the alkaline manganese type LR 03 (AAA) with the correct polarity (+/-).



Then push the cover back on.

Note on disposal of batteries:

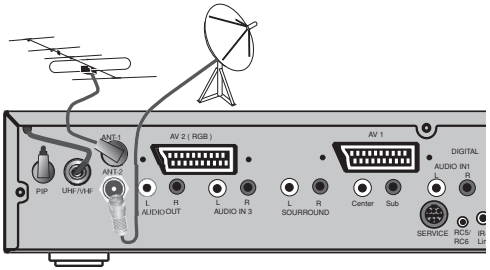
The original batteries do not contain any pollutants such as cadmium, lead and mercury. Used batteries do not belong in the domestic waste. They must be taken to the appropriate collection points according to the national laws. Ask your dealer.

Connecting

Antenna

Connect your antenna or cable system to the UHF/VHF antenna socket on the back of the Signal Box.

- In sets with the "Digital-TV Upgrade Kit 2 Sat/Twin-Sat CI- or CIP" connect the Sat antenna cable to the "ANT-1" and "ANT-2" sockets, in this way you can receive two satellite programs simultaneously, e.g. for PIP display, see fig. on page 9.
- In sets with "Digital-TV Upgrade Kit 2-T/S" connect the antennae to the Signal Box as shown below.

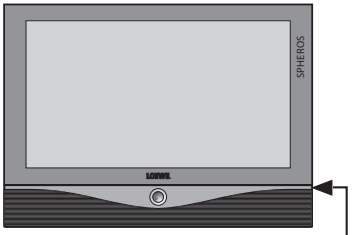


Power mains

After connecting the flat screen to the Signal Box, connect both devices to 230V/60Hz mains sockets.

Switching on

Press the On/Off button so that it is pressed in. Due to the LCD technology it takes about 2 minutes to reach full brightness.



Switch on/off

Automatic programming

Automatic programming of the TV set is started the first time you switch it on. Follow the menus.

First you have to select the menu language for your set. Then you specify which antenna you have connected to your TV and in what country you are using it. Then you start the station search. The TV set searches for, saves and sorts all programs which are freely receivable on your antenna system.

You then see a list of the stored stations in which you can mark your favorites. Finally log in your video recorders, decoders, Loewe audio system and Home Automation with the connection wizard and connect these to the TV set according to the illustrated connection plan.

Select the settings with the arrows on the ring ...

... confirm the settings with **OK**. You then move on to the next menu ...

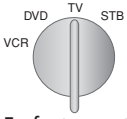
... press this button if you want information about the settings.

You can repeat initial installation at any time, e.g. after moving house. Call the index in the main information (i button). Then select the item "Repeat initial installation". Then start "Initial installation" with **OK**.

Daily handling

Remote control RC3

Remote control for operating different Loewe units.



Operating the TV:
Set the rotary switch to "TV".

Ex-factory settings are: Loewe video recorder, Loewe DVD recorder and for STB (Set Top Box) the d-box common in Germany.
The remote control must be switched for operating a Loewe DVD player.

TV equipment

Functions marked by ✳ are not available in all types of TV sets but can usually be retrofitted. Ask your dealer if you are interested.
Menu contents may differ from the ones shown depending on your TV equipment.
Operation of the "PhotoViewer functions" or the "Digital Recorder", if available, are described in a separate operating manual.

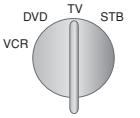
You can show your TV equipment by pressing the **INFO** button on the remote control.

Select the "Equipment" line in the "Main information" menu.

Press the **OK** button.

Hide the menu again with the **END** button.

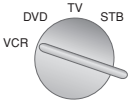
Use the drive buttons in TV- and STB position for VCR, DVD or Digital Recorder
You can switch over the six drive buttons both for TV and STB for operating a VCR or DVD player/recorder. Operation of the built-in Digital Recorder Plus is specified ex-factory.



First turn the switch to the main function TV or STB.

Press the **END** and ✳ **EPG** buttons at the same time (5 secs). The display at the top left of the remote control flashes twice.

Enter the numbers 988 one after the other. The display again flashes twice.



Now turn the switch to the required function for the drive buttons. DVD, VCR or TV if the Digital Recorder is to be used.

Press the **# PIP** button to complete the setting. The display flashes twice.

The setting is saved.

Switching on/off

Your TV set is equipped with an economy standby power supply unit. On standby the power consumption drops to low power. If you want to save even more electricity, switch the set off at the On/Off switch (Signal Box).
But remember that EPG data will then be lost and timed recordings will not be made.

When the TV is switched on, you can switch it to standby with the blue on/off button. The red standby indicator on the set lights up. If the green indicator is also alight a timer recording on the VCR is in progress, EPG data input is taking place or radio mode without on-screen display is active.

From standby it is best to switch back on with the blue On/Off button or with a numeric key (station 0-9). The green (blue) operating LED then lights up.

When you switch on the TV with **OK**, you see the station table and can choose a station.

None of the indicators lights up when you switch off the TV set with the On/Off button on the set.

Switch on the TV set with the On/Off button on the set when it is switched off.

Daily handling

Changing channels

Channels up/down (only favorite stations if these are shown in the station table).

With the numeric keys on the remote control
The set has a dynamic memory with 220 (with DVB 1470) memory slots. If up to 9 stations are stored, you only need to enter one number, up to 99 two numbers, up to 999 three numbers and above 999 four numbers (please look in the station table to find out how many stations have been stored).

1-digit stations

7 pqrs

Keep the button 0 - 9 pressed for one second, the channel then changes immediately.
or press the button 0 - 9 briefly, the channel then changes after 2 seconds (immediately when up to 9 stations are stored).

2-digit stations

2 abc
7 pqrs

Keep the second numeric key pressed for one second, the channel then changes immediately.
or press both numeric keys briefly, the channel then changes after 2 seconds (immediately when up to 99 stations are stored).

3-digit stations

1
2 abc
7 pqrs

Keep the third numeric key pressed for one second, the channel then changes immediately.
or press the three numeric keys briefly, the channel then changes after 2 seconds (immediately when up to 999 stations are stored).

4-digit stations

1
2 abc
7 pqrs
8 tuv

Press the four numeric keys briefly, the channel then changes immediately.

Depending on how many stations have been stored, you can place one or more zeros in front of the number and select for example station 7 = 07 or 007 or 0007.

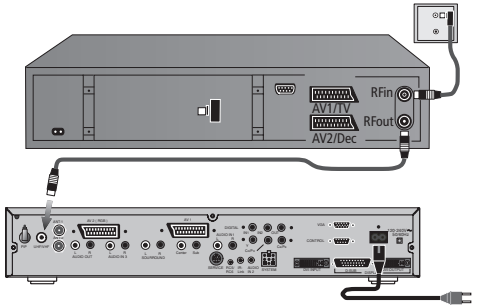
Call Audio/Video programs - AV selection

0 AV

for playing AV equipment.

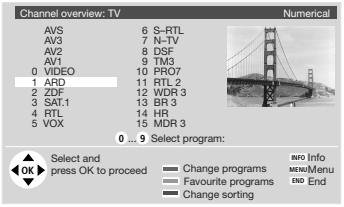
AV Selection VIDEO AV1 AV2 AVS VGA/XGA DVI COMP.IN

AV connection (e.g. AV1 socket) or …
Select **VIDEO** for VCR transmitters if the VCR is only connected to the "VHF/UHF" antenna socket on the Signal box. See Fig.



With the station table

Call the station table with **OK**



Mark the station
(the marked station is shown in the PIP pictures)

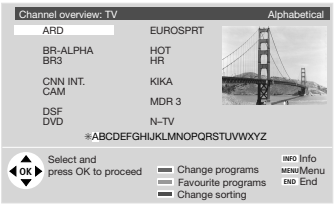
or ...

0 AV
⋮
9 wxyz

mark with numeric keys

Call the marked station

Sort alphabetically/numerically (blue button)



Show favorites only (yellow button), selectable in the "TV Menu-Programs".

Daily handling

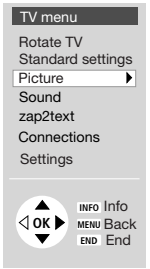
General menu operation

Not all functions can be selected directly with buttons on the remote control.
To keep the number of buttons on the remote control to a minimum, operating menus are offered for several operating functions.
Which buttons you use to operate these is shown in the respective menu.

Setting the picture

With the remote control RC2/RC3:

Call the TV menu, press the **MENU** button.



Mark (white field)

Call the menu with **OK**

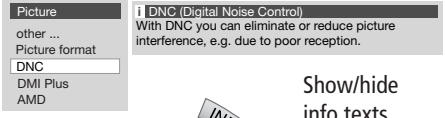
or ▸

Grey menu items cannot be selected

Set (setting value and bar)

Mark other menu items

Set/select



Show/hide info texts on/off

Other picture settings are: Contrast, Picture adaptation, Colour, Brightness, Vertical hold (not for 16:9 or 4:3), Focus, Tint (only for NTSC), Picture format, Noise reduction (DNC), Movement compensation (DMI) and automatic picture size adaptation (AMD).

Back to the previous menu level

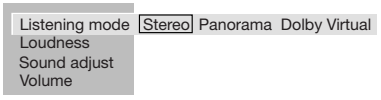
Hide all menus

Adjusting the sound

Adjusting the volume

Adjust the volume

with "others ..." you can select and ...



... set other sound settings.

Mute

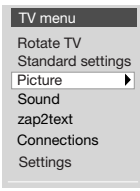
Sound off; Sound on: press button again or adjust volume. The status is displayed briefly on screen.

Other sound settings with the remote control RC3:

Call "TV menu–Sound", press the button

with the remote control RC2:

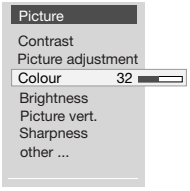
Call the TV menu, press the **MENU** button.



Select line "Sound".

confirm

Select sound function



set/ select and ...

accept with OK

Other sound settings: Sound via the loudspeakers of the TV set or another system. Listening mode Stereo/Panorama/Dolby Virtual. Sound adaptation, treble, bass and balance. Sound select for loudspeakers and headphones, AV output sound. Volume of the headphones, automatic volume and max. volume.

Operation on the TV set

(on Signal Box)

Changing channels on the TV set

Channel up

Channel down

Volume, contrast and color

Press the function button until the desired function is marked

More volume, contrast or color

Less volume, contrast or color

Modes of operation

TV mode

In initial installation and daily operation, the TV set is in TV mode. This is also the case when none of the other modes of operation such as EPG, Teletext, PIP, Video or Radio is selected. Every one of these modes of operation has a menu which you can call with the **MENU**-button and with some color button assignments.

Function of the color buttons in TV mode
You can assign the functions of the four color buttons yourself. The following functions are set at the factory:

red: personal teletext page (with DR+: call DR archive)

green: call picture format setting (with DR+: call timer overview)

yellow: call last viewed station

blue: call station info

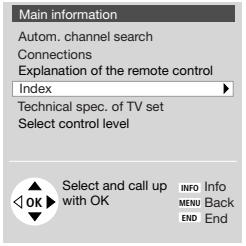
You can assign other functions to the buttons in the TV menu "Settings" - "Function keys".

Status display

Show/hide status

Main information

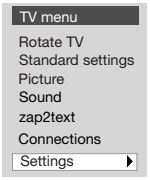
Call main information



The **explanation of the remote control** shows the function of every button in different modes of operation of the TV set and the remote control.
The **index** answers many questions regarding all aspects of the TV. If it is a question about the operation, you have direct access to the operating function from the index.
Loewe TV sets are supplied in different models with different equipment. You can find out what equipment your TV has under the menu item "**Technical spec. of the TV set**".
When you have made all the settings and connections, you can switch over to "**Simplified control**"(not in digital TV) using "Select Mode". Then the "Settings" and "Connections" can no longer be launched in all modes of operation menus. Switch "Simplified control" back off when you want to make settings.

TV menu

Launch the TV menu



Standard values
You can save the setting for picture and sound you have made in this menu and launch them again later.

Connections
You will find information about this in the chapter "Logging in and connecting AV equipment" on page 21/23.

zap2text
Some stations use this service. If teletext pages are referred to during a program, the TV set saves and/or displays this page number. You call the teletext page with the **TEXT** button from the display during the program or from this menu.

Some **settings** in the TV menu:

Child lock
Use the child lock if you want to prevent your children watching after a certain time, once or daily, all or certain programs.

On-screen displays
You can define duration and position of the displays, the content of the program and status display and activate or deactivate zap2text as a display.

Timer functions
You can have your TV switch on and off at specific times or have yourself reminded by a signal tone.

Time and date
When you receive teletext, the TV records the right date and time settings. The time serves as information for timer recordings, timer functions and EPG. If you do not receive teletext you should set the date and time and not switch the TV off with the mains button as the settings will then be lost (Not all stations transmit the full date, you may have to add missing data manually).

Language
If "your" menu language is not set, you have to select the "Language" menu in a language you cannot understand:
Press the **MENU**-button (TV menu), mark the last menu item (settings), press the **OK** button and mark the last menu item (Language) under "other ..." and press the **OK** button.
Now select the right language and confirm with **OK**.

Modes of operation

Menu functions in TV

EPG
Call the electronic program guide of the TV set. Press the **SET** button again, the EPG is hidden. EPG can also be called and hidden with the * EPG button.

PIP
Call/hide the picture in picture function of the TV set. PIP can also be called and hidden with the # PIP button.

TV radio (SAT radio)
Switch the radio mode of the TV set on/off. Prerequisite: Your TV is equipped with a satellite tuner (see on page 17).

Video
Call or hide the video control bar.

Format
Call the selection for setting the picture format. Select the picture format by repeated pressing of the **SET** button.

AV input
Call the AV selection for playing connected equipment (e.g. VCR, camcorder or DVD player). Select the device by repeatedly pressing the **SET** button. The AV selection can also be made with the 0 AV button.

Picture
Show/hide the picture menu. You can set the TV picture with the help of the picture menu. The Picture menu can also be called by the TV menu → Picture.

Sound
Show/hide the Sound menu. You can set the TV sound with the Sound menu. The Sound menu can be opened under the "TV menu – Sound". On the **RC3** remote control also directly with the button.

Sound mode
Call the sound mode settings of the connected Loewe DVD-Preceiver "Auro".

Timer
Call the timer overview of the TV set.

Digital PhotoViewer
With the Digital-PhotoViewer integrated in the Signal Box you can show pictures taken with digital cameras from the most common memory cards (see fig. page 5) on the screen. After inserting the memory card the set switches to PhotoViewer mode and you first see an overview of the pictures stored on the card. The set switches back to TV mode when the card is pulled out.
You will find a detailed description in the "Digital PhotoViewer" operating manual enclosed.

Digital Recorder Plus (DR+)
If a hard disk is integrated in the Signal Box (set variant), you can record and play TV programs. Depending on the selected recording quality the possible recording capacity is between about 20 and 100 hours.
The possibilities of the Digital Recorder are much more versatile than those of a video recorder. Use the separate "Digital Recorder Plus" operating manual for operation.

Modes of operation

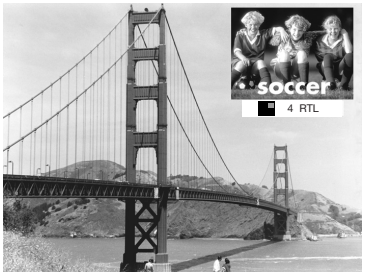
Picture in Picture (PIP)

PIP can be displayed as Standard PIP, iPIP or Split Screen by default.

Standard PIP functions:
The Standard PIP displays a PIP image in the presently displayed TV image.

Show/hide PIP picture

The status of the PIP mode i.e. PIP channel selection or PIP scan is shown in the status display in a colored square before the channel name and appears while changing the channel or on pressing the **END** key.



If the PIP status is green, you can select the PIP channel:

Channel up/down or direct

PIP image as static image

The PIP status must be green. If it is not, press the green button.
Then press the red button; the PIP image becomes a static image.
Press the red button again for a moving image.

Changing the channel of the TV image

The PIP status must be white. If it is not, press the green button.
Then select the station as normal.

PIP channel scan

The PIP status must be green. If it is not, press the green button.

Start the PIP scan with the blue button. The PIP status turns blue.

The PIP channel now changes automatically. Stop the station scan with the blue button. The PIP status turns green again.

Interchanging PIP image/TV image

The PIP status must be green. If it is not, press the green button.

Interchange the pictures with the yellow button.

Position of the PIP image

The PIP status must be green. Call the PIP menu with the **MENU** button.

Mark "**Position**".

Select a symbol for the position.

Hide PIP menu

Size of the PIP image

Mark "**Size**" in the PIP menu.

Select "**Large**" or "**Small**".

Split Screen

Mark "**Type**" in the PIP menu.

Select the symbol for Split Screen.

Hide PIP menu

The image on the right pertains to the PIP image and has no sound. TV image and PIP image are separated from each other by a colored line (PIP status).

Adjusting "iPIP"
Switch on the PIP menu with the **MENU** button.

Mark the "**Functionality**" bar.

Select "**iPIP**".
Hide the menu with the **END** key.

iPIP function:
In iPIP the presently displayed TV image becomes the PIP image. For the TV image, select another channel and retain the PIP image.
In iPIP, the PIP status is orange-colored.

Show/hide PIP picture

Also read the info text; press the **INFO** key.
The PIP image changes back into TV image, when you switch off PIP.

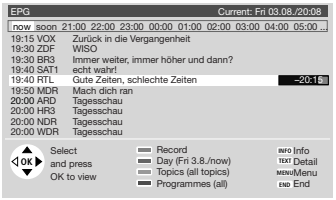
Modes of operation

EPG mode

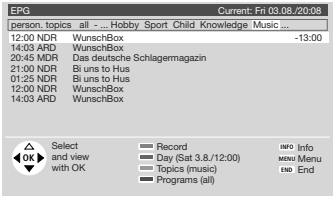
EPG is the electronic station guide for TV programs. With this system, you can easily find the programs that interest you (sorted according to time, day, topics and programs). You can memorize programs and program recordings.
A wizard is activated the first time you use EPG (not with DVB) which guides you through the necessary settings. Then run the data acquisition (see page 17).

Using the EPG

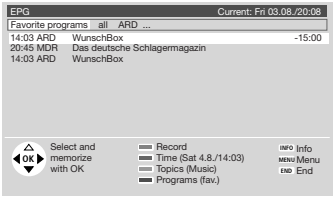
* EPG Switch EPG on/off



The first line is framed initially in green.
The green frame stands for time and date, with the green button you switch between time and day or, if the frame has a different color, back to the green frame. With the arrow buttons ◀ ▶ you select: now, later, the time or day for starting stations. The list of stations below is updated accordingly. With the buttons ▼ ▲ you mark a station you want to watch (now running), memorize or record.



The frame turns yellow when you press the yellow button. The yellow frame means you can select topics. With the arrow buttons ◀ ▶ you choose between personal topics, all topics and the individual main topics such as Film, News, Show, Music etc. The list of stations below is updated accordingly. With the ▼ ▲ buttons, you mark a station you want to watch (a program currently running), memorize or record.



The frame turns blue when you press the blue button. The blue frame signifies station selection. Use the arrow buttons ◀ ▶ to choose between your favourite stations, all stations or the station just set. You can select another individual station by moving to "..." with ▶, marking a station in the list and storing it with **OK.**
The respective current settings are shown next to the operating notes for the color buttons.

Direct input of time
You can also enter the time directly with the numeric keys of the keypad. After entering the first digit, the time is displayed first next to the symbol of the green button by asterisks and is then replaced by the entered numbers, e.g. 2100. If the entered time has already passed, its entry is used for the following day.

Viewing or noting a program
You can watch or note the program selected with the ▼ ▲ buttons by pressing the **OK** button. A + sign is set in front of the program title for noting. At the start of the broadcast, this program is switched to or you see a message.

Programming recording with VCR
You prepare the station marked with the buttons ▼ ▲ by pressing the red button. Under "Timer Recording" you select VCR and whether you want to record one program or a serial. A red dot is set in front of the title of the program. If a program is already marked by a red dot, you can delete the timer data again with the red button (the red dot disappears).

Calling detailed information
If detailed information about the selected station is available, you will see the **TEXT**-button displayed additionally. You can call the detailed information with this button.

Other functions in the EPG menu:
Call the EPG menu with the **MENU** key.

List of memorized programs
You will find the stations you have memorized in a list.

Switch on TV at mark
You can have the TV set switch on automatically from standby mode at the time of a marked program. If you are not in at this time, a security prompt makes sure that the TV switches off again after 5 minutes.

Indicate/start memorized station
If the TV is already on when the memorized program starts you can have the start of the program indicated or the TV switched over immediately.

Short info lines
Short infos are broadcast for many programs. Set how many lines this information should have or switch the short info lines off.

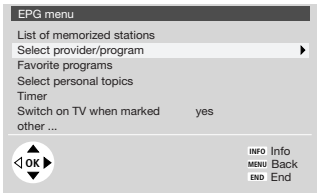
EPG entry
If you want to start EPG operation, you can retain your last settings for topic and program selection or start with all topics and all programs.

Modes of operation

EPG settings
If you want to change the provider or want to have other programs evaluated, you can do this in the EPG menu.
Provider search

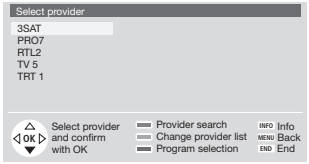
EPG on/off

Call EPG menu



Mark "Select provider/ program"

Call



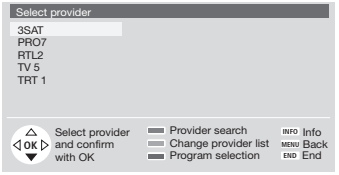
Start provider search (green button). This may take some time.

Mark the provider

Save the provider

This is followed by a station search and a list of TV stations is displayed which transmit data. Move on to the provider selection with the **OK**-button. If the stations offered are what you want, move on to the station selection with the blue button.

Selecting stations for EPG
Select the stations here for which information is to be collected.



Stations marked by + are favorite stations. The provider supplies information for stations marked by E (terrestrial, cable and analog satellites) and D (digital), these are already marked (blue letters).

Mark the station/Remove the marking

red: Only mark favorite stations

green: Mark all stations

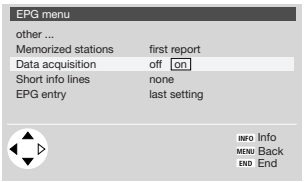
yellow: Only mark this station

Back to the EPG menu

Switching data acquisition on/off

Mark "Data acquisition" in the EPG menu under "other"

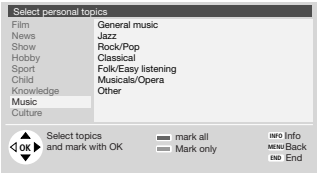
Select data acquisition off/on



If, for example, you cannot receive any EPG providers and no DVB is installed in the TV set, you should switch off the data acquisition.

Performing data acquisition
The data must be collected first after these settings or every time the TV is switched off. To do this, select the program which you have defined as a provider and leave it switched on for about one hour or switch the TV set to standby mode. The green (blue) LED lights up in addition to the red LED after about two minutes. Data acquisition takes about one hour, in sets with a DVB module a little longer. The data are automatically collected between 2 and 5 in the morning when the TV is switched off to standby.

Defining personal topics
You will find the programs that interest you faster when you define your personal topics. Mark "Select personal topics" in the EPG menu and put together your list of personal topics.



TV-Radio mode

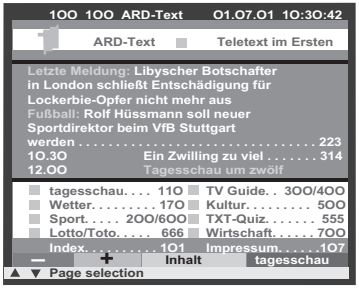
Switch the TV-radio mode on or off by pressing the RADIO button.
If a satellite tuner and a DVB module are installed in your TV, radio stations are available. If these accessory modules are not installed, you can select only the audio inputs (connections AV1 to AVS, DIG IN 1, DIG IN 2) with the program table or with the keys ▼ ▲ and play an external audio signal through these.

Modes of operation

Teletext mode

Teletext transmits information such as News, Weather, Sport, Program Previews and Subtitles.

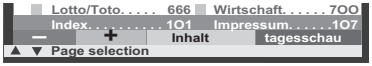
TEXT Teletext on/off


100 100 ARD-Text 01.07.01 10:30:42
ARD-Text Teletext im Ersten
Letzte Meldung: Libyscher Botschafter in London schließt Entschädigung für Lockerbie-Opfer nicht mehr aus
Fußball: Rolf Hüssmann soll neuer Sportdirektor beim VfB Stuttgart
werden 223
10.30 Ein Zwilling zu viel 314
12.00 Tagesschau um zwölf
tagesschau. . . . 110 TV Guide. . 300/400
Wetter. . . . . 170 Kultur. 500
Sport. . . . . 200/600 TXT-Quiz. 555
Lotto/Toto. . . . . 666 Wirtschaft. 700
Index. . . . . 101 Impressum. 107
Inhalt tagesschau
Page selection

Many stations use the TOP operating system, some use FLOF (e.g. CNN). Your TV supports both these systems. The pages are divided into general topics and topics. After switching on the teletext, up to 3500 pages are stored for fast access.

Selecting pages with the colored buttons

The colored bars (in TOP) or the colored writing (in FLOF) in the last line but one show you which colored buttons to use to scroll to general topics and topics.



red: back to previously viewed page (not with FLOF)

green: forward to next page (not with FLOF)

yellow: to the next topic (only in TOP and FLOF)

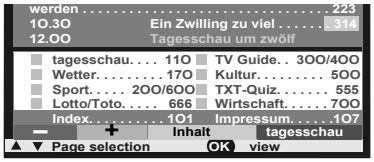
blue: to the next topic (only in TOP and FLOF)

Page selection with the numeric buttons

1 2 7 pqrs Enter the page number directly

More functions for page selection

OK Mark a specified page number on the page (Page Catching)

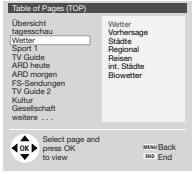

werden 223
10.30 Ein Zwilling zu viel 314
12.00 Tagesschau um zwölf
tagesschau. . . . 110 TV Guide. . 300/400
Wetter. . . . . 170 Kultur. 500
Sport. . . . . 200/600 TXT-Quiz. 555
Lotto/Toto. . . . . 666 Wirtschaft. 700
Index. . . . . 101 Impressum. 107
Inhalt tagesschau
Page selection OK view

OK Launch

OK Scrolling in stored sub-pages. In the bottom line you will see which sub-pages you can already launch

INFO Launch contents page 100

The TOP table is a general list of teletext. You can only launch the table on channels which use the TOP operating system.



OK Launch the TOP table

OK Mark a general topic

OK Select the Topics column

OK Mark menu items

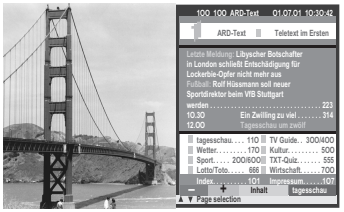
OK Display page

Displaying teletext pages

0 AV Stop self-turning pages (HOLD)

9 wxyz zoom: top half - bottom half - normal size

PIP TV picture on/off (Split text)

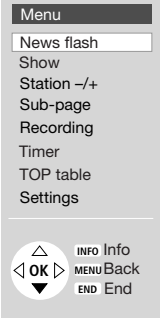


Program timer recordings

If the remote control is set to "TV" (no equipment combination), call the program pages of the current station with the Record button • in teletext mode. Select the station you want to record with ▼ ▲ and confirm with the **OK** button. Select VCR for "Timer data". Confirm with **OK**.

Teletext menu

MENU Launch teletext menu



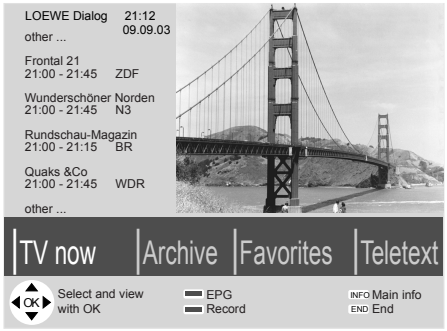
Here you will find functions such as "News flash", "Show" hidden information, switch to other channels (if another tuner is available), enter 4-digit sub-page number directly and programme video timer recordings via teletext.
In the settings you will find menus to define the preview pages, subtitle pages and personal teletext pages.

LOEWE Dialog

(only activated in connection with the Digital Recorder Plus)

In connection with the Digital Recorder Plus the LOEWE dialog page offers an overview and quick access to information content of the TV, e.g. the programs currently showing, programs last recorded etc.
You should have already made a few settings before using the LOEWE Dialog to provide selection possibilities.
You should have made the EPG settings described on page 16 and run the EPG data entry. The Digital Recorder archive should also already contain recordings. You should have defined a few personal teletext pages. In all these cases you then have a useful selection.
No LOEWE dialog is displayed with NTSC reception.
You call the LOEWE Dialog with the arrow buttons on the remote control when no menu is displayed.

Press one of the arrow buttons ▲ ▼ ◀ ▶ for about 1 second.



The TV program just selected is shown in reduced size (the live picture).
The blue bar shows you the selectable functions. The function on the left is active. You can move the function to the active position with the arrow keys ◀ ▶ .

Above the selected function you see a selection which you can navigate with the arrow buttons ▲ ▼ and view with **OK**.

With TV now - The selection of programs currently running acquired by the EPG system is displayed in TV now. If no EPG is received, a programme info of the station currently being received is displayed.

With Archive - the selection of recorded programs in the DR archive is displayed.

With Radio - the selection of programs of the satellite radio is displayed. If you have switched over to Sat radio mode, LOEWE Dialog cannot be called. If you do not receive satellite radio (no satellite tuner/DVD module), Favorites is displayed in place of Radio, that is favorite programs you have defined.

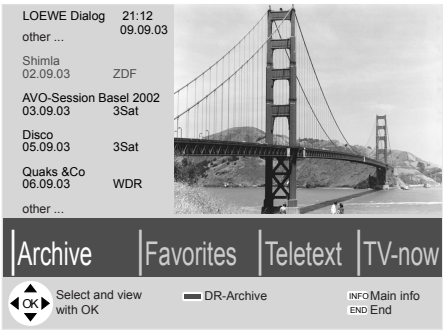
With Teletext - the selection of personal teletext pages is displayed.

This is how you select with the example of the "TV now" function
Mark the desired station with the arrow buttons ▲ ▼, the name turns blue. Other stations can be displayed with "others...".

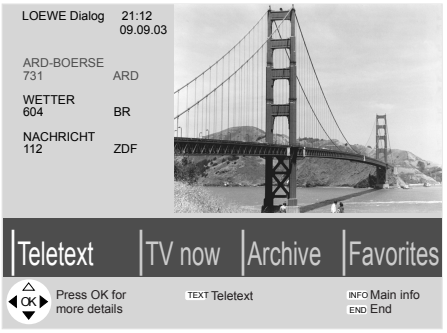
Press the **OK** button to watch the station.
You can call LOEWE Dialog with the ▲ ▼ ◀ ▶ buttons so that the desired function is ready for selection on the left.

Call TV now

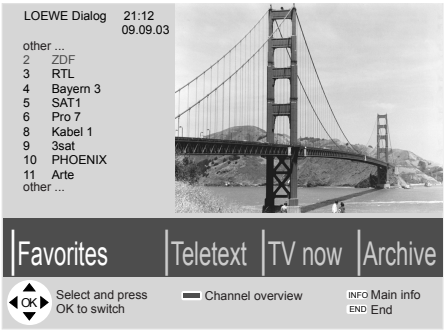
Call Archive ▼



Call Teletext ◀



Call Favorites ▶



Operation of additional equipment

Video mode

You can operate Loewe video recorders and DVD players with the video control bars even if they are hidden. The VCR's must be connected to the Euro AV sockets (Scart) and logged in under the "Connections" menu.
Digital Link must be switched on on the Loewe video recorder. Only then can you use the control bar. You also need Digital Link for timer recordings of satellite programs controlled by the TV set.
You can display up to two menu bars, these are displayed when the appropriate video units are logged in the "Connections" › "Connections: Connection plan" menu.

Show/hide video menu bar

Select video menu bar, if for example several VCRs or a DVD player and a VCR are connected.

Select function

Switch VCR/DVD on/off

AUX — Select video input (Euro-AV socket) for the VCR

◀◀ — Rewind (only for VCR) or Scan in rewind

■ — Stop (STOP)

▶ — Playback (PLAY)

▶▶ — Fast forward (only for VCR) or Scan in fast forward

❚❚ — Pause (PAUSE)

▶❚ — Next chapter (only for DVD)

❚◀ — Previous chapter (only for DVD)

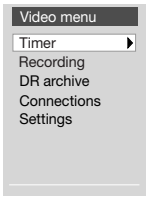
● — Record

Perform selected function.

When you start a recording, the program you have just selected is recorded. You cannot switch over to another channel, it is locked. You can only switch over when the recording has finished.
Exceptions:
1. You have installed several tuners (not PIP tuners) in the TV set, then you can watch another channel with the second tuner.
2. You can also watch the signal via an AV connection (e.g. DVD player or a second VCR).
3. In a VCR with Digital Link Plus the VCR tuner is used for the recording (not for satellite programs).

Video menu

MENU — Show the Video menu



A line is displayed in the menu if a Link Plus Recorder is connected.

The Video menu provides you with the following options:

You can change and delete timer data or program new recordings in the "Timer" menu. The "Record" menu gives you the option for timer programming by EPG, teletext or manually.
You can call the archive list with "DR Archive" if a Digital Recorder is built in.
In the "Connections" menu you can log other AV equipment on or off. In the "Digital Link Plus transfer" menu the station data of the TV set (not satellite stations) are transmitted to the Digital Link Plus VCR.

Digital Link Plus VCRs have the possibility for transferring the station data from the TV set to the VCR via the Euro-AV cable (not for satellite stations). Every time you change the station memory of the TV, you are asked whether you want to make a data transfer.
The receiver unit of the VCR is always used for recording with a Digital Link Plus video recorder (not satellite stations) and the tuner of the TV set is available for watching TV.
Loewe VCRs also have **Digital Link**, a system for controlling Loewe VCRs via the Euro-AV cable. If the Loewe VCR only has Digital Link, the TV tuner is used for recording. If you have installed your Loewe VCR in a concealed place, you can operate the Loewe VCR with the remote control. Operation with the control bar also works with Digital Link.

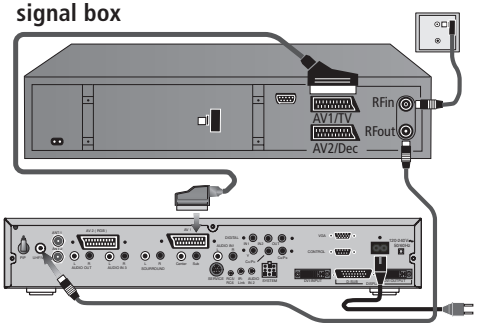
Digital Link must be switched on on the video recorder.
Only use fully wired Euro-AV cables, otherwise Digital Link or Digital Link Plus will not work.

Operation of additional equipment

Logging in equipment
You have already logged in and connected all connected devices (video recorders, camcorders, DVD player, DVD recorder, Loewe audio system, Pay-TV decoders, Loewe home automation, door intercom) with the connection wizard when you put it into operation for the first time. If you want to connect further or different devices, you have to call the connection wizard in the TV menu - "Connections".

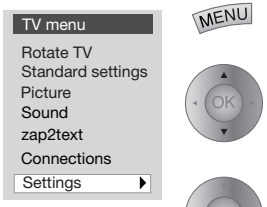
Connecting VCR equipment
In addition to the connection via the Euro-AV socket, you also have to connect the antenna (only for antenna or cable systems) through the VCR to the TV set. The antenna signal is then available both to the tuner in the VCR and the TV tuner.

signal box



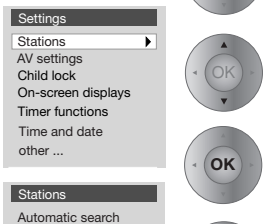
video recorder

Search for and store the VCR station (if there is no Euro AV cable)
Switch on the test station on the VCR or insert a recorded tape and start playback.
Then call program 0 on the TV set (set ex-factory to channel 36). Select the first menu item (VCR) in the AV selection list.
To prevent "normal" TV stations being found in the search, pull out the antenna plug from the antenna input of the VCR temporarily (the plug attached to the cable to the antenna system).



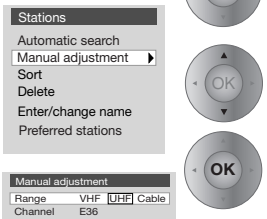
MENU — Call the TV menu

OK — Mark "Settings"

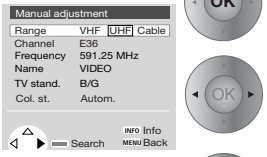


OK — Call

OK — Mark "Stations"

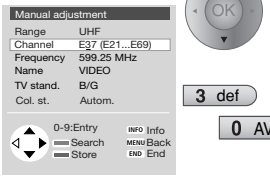


OK — Call



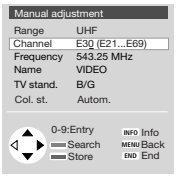
OK — Mark "Manual setting"

OK — Call



OK — Mark "Range" and Select "UHF"

3 def / 0 AV — Mark "Channel"

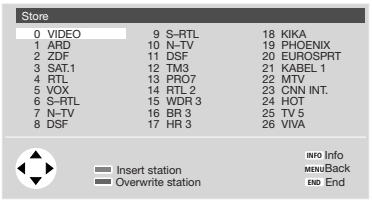


Enter channel 30
Search for channel (blue button)
When the station is found:

Store (red button)

If you want to change the program, e.g. to "Video", select the "Name" line.
Enter the new program name.

A list of the stored stations is displayed



Overwrite program (program 0 marked)
pressing the **red** key

END — Hide menus

Plug the antenna plug back into the VCR.
If you now get interference because a TV station is transmitting on the same channel as the VCR station, you have to change the transmitting station on the VCR (see operating instructions of the VCR) and search for the VCR station on the TV again.

Operation of additional equipment

Video playback

There are several ways to see the picture and hear the sound of the VCR, DVD player or camcorder on your TV:

1. Use the Euro-AV sockets on the signal box and VCR. This is the best way to get a good picture and sound quality. For camcorders it is best to use the front sockets AVS.
   If you are playing back from a VCR with Digital Link Plus, the VCR picture is shown on the current station slot.
   If you are playing back from a standard VCR, DVD player or camcorder, select the AV socket to which the video signal is connected in the AV selection list or the station table.
   Video recorders emit a switching voltage during playback which the TV set can decode (can be activated for every VCR in the connection wizard or set Settings - AV Settings - Allow switching voltage to "Yes" in the TV menu). Then the VCR picture is shown on the current station slot as in Digital Link Plus VCR's.
2. You can also control logged in Loewe VCRs and DVD players with the video menu bar. See page 11/20 for more details.
3. Use the antenna connection between the VCR and the signal box. The sound is only transmitted in mono. Select the first menu item, e.g. VIDEO, in the AV selection.

Calling an AV program in the AV selection list

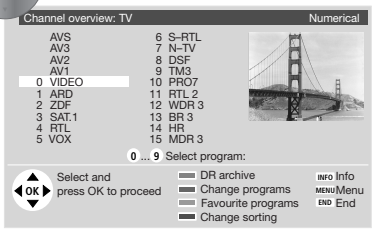
Call AV selection list

Select AV connection (e.g. socket AV1) or VIDEO for the VCR station.

Now you will see the playback from the connected AV unit.

Calling an AV in the station table

Call the station table



In the numeric sorting you will always find the AV devices at the top of the list without station numbers.

Select the AV connection and...

confirm with **OK**.

Now you will see the playback from the connected AV unit.

IR-Link

Your TV set is equipped with the IR-Link socket (IR-Link), a cable with plug and the IR transmitter diode are included with the set. This allows you to operate a concealed d-box or a VCR from another manufacturer with its remote control through the TV set with most remote controls. Plug the jack plug of the cable with infrared transmitting diode into the IR-Link socket on the back of the signal box. The infrared transmitting diode at the end of this cable must be placed in front of the concealed device. The TV must be switched on for transmission.

A napped strip is provided to help to lay the cable. The strip is self-adhesive; pull off the backing foil first. Stick the strip to the shelf or cabinet and press the cable into the naps. You can cut up the strip into several sections with a knife.

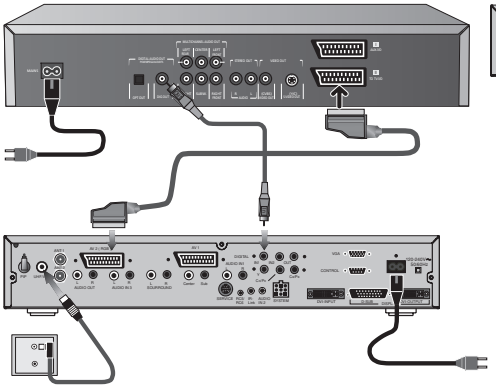
Point the infrared remote control at the TV to operate the concealed VCR.

Operating additional equipment

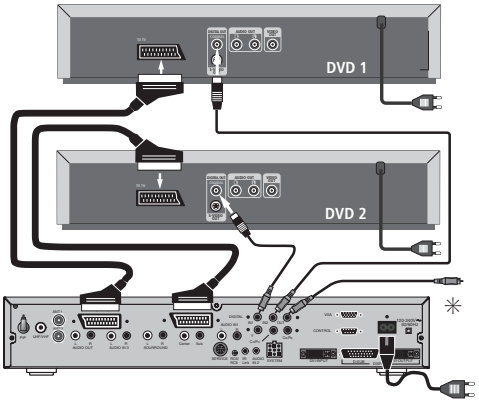
Digital input/output

Have you logged in your video equipment, e.g. DVD players or VCRs in the "TV menu–Connections" as described on page 21?

For analog picture and sound signals from the VCR or DVD player, use a Euro-AV cable to connect the Euro-AV socket 1 or 2 to the Signal Box and the corresponding AV socket of the VCR.



The Signal Box also has 2 coaxial digital audio inputs "DIGITAL IN".
For optimum sound transmission connect the output socket of the DVD player (DIG OUT) to the "DIGITAL IN 1 or IN 2" socket on the Signal Box with a cinch cable.
The Signal Box has an electronic switch so that it is possible to assign a digital audio input to every AV input.
For example, if you switch a DVD player connected to "Euro-AV 1" to Play, the respective assigned audio input "DIG IN" is selected automatically.
In this way, you can connect two DVD players, for example, without the need for tiresome replugging.
Note
The TV set without Dolby Digital Module can only play PCM-Stereo sound.



✳ to Concertos or digital receiver or Certos.

Assigning digital inputs
Switch on the "Radio Mode". The digital inputs "DIGITAL IN 1" or "DIGITAL IN 2" can be selected directly.

MENU

1. Call up the TV menu by pressing the **MENU** key.

TV menu
Rotate TV
Standard settings
Picture
Sound ▶
zap2text
Connections
Settings

2. Select the "Sound" line, then press the **OK** key.

3. "Sound via" select the "AV amplifier (Dig. input)" or "Concertos", if Concertos has been connected.

Sound
Sound via TV [AV amplifier (digital input)] HiFi Concertos
Headphone volume
Loudspeaker sound
Headphone sound
AV audio signal
Dig. DVB output tone

Press the **OK** key

MENU

4. Press the **MENU** key.

5. Select the bar "Settings" and confirm with **OK**.

6. Select the item "AV settings", then confirm with **OK**.

AV settings
Manual adjustment of AV standard
Assign audio digital ▶
Allow swichting voltage
RGB insertion at AV2

7. Select the "Assigning Audio digital" line and press **OK** to confirm.

Assign audio digital
Digital In1 no to AV1 to AV2 [to AVS]
Digital In2 no

8. Select "Digital IN 1 - to AV3" for example for socket AV3 if a DVD player or CD player with coaxial-digital output is connected to digital input 1 and this device is logged in in the "Connections" menu.
If the video signal from a play console is connected to the AVS socket, the relevant device is logged in and the digital sound is present at the digital input 2, then select "Digital In 2 – to AVS" etc.

END

9. You can complete the settings by pressing the **END**

→

Operating additional equipment

Audio output "DIGITAL OUT"
The digital audio signal is applied at the "DIGITAL OUT" socket of the Signal Box. Here, for example, you can connect an external Dolby Digital Decoder or the Loewe sound system "Certos/Concertos".

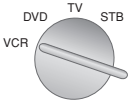
An analog audio signal from the TV set or a VCR or another sound source which is received at one of the Euro-AV sockets of the Signal Box is converted into a digital signal (PCM) and output at the "DIGITAL OUT" socket.
The digital signal from the DVD player is output unchanged at this socket.
The digital TV sound or the sound of a DVD/CD player is only audible through a Digital Receiver or the Concertos or Certos system.

AV-connection/Select device

Press the key 0 on the remote control a little longer; the AV selection bar is displayed again.

Select the AV connection to which the sound source, such as the DVD player, is connected.

Converting the remote control in order to operate a Loewe DVD player or devices from other manufacturers
You can switch over the remote control for VCRs, DVD players and Set Top Boxes if the infrared code of the equipment type is listed in the code list or is in the code memory of the RC3.
Switching over is done on the one hand by entering a four-digit code and on the other hand the remote control suggests codes which you can test on the equipment.
If you cannot find the equipment in the code list, try a suggestion from the remote control.
Even if the manufacturer of the equipment is included in the code list, it is possible that it cannot be operated. Not all functions on the RC3 are available for this equipment.
Switching over the remote control – with code input – e.g. to the Loewe DVD player
Look for the code number of your equipment in the code list. The list is sorted according to equipment type – DVD, VCR, STB – and alphabetically according to manufacturer. You will find one or more code numbers next to the manufacturer name.

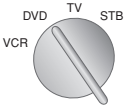


Using the switch select whether you want to switch over to a VCR, DVD player or a Set Top Box.

Press the **END** and *** EPG** buttons at the same time (5 secs). The display at the top left of the remote control flashes twice.

Enter the four numbers from the code list one after the other (0539 for Loewe DVD player). The display flashes once after each number is entered. Twice after the last number.
If the number was incorrect, the display flashes for longer. The code number has not been accepted.

Once the code has been accepted with two flashes, you can test the functionality of the device you have just programmed.
If the device cannot be operated or is difficult to operate, repeat the code input with the next code from the list. If no other codes are specified for this manufacturer, try a code suggested by the remote control.
Switching over the remote control – with the suggestions by the remote control (see page 37-43)
Switch on the device to which you want to set the remote control. Standby is not sufficient!



Using the switch select whether you want to switch over to a VCR, DVD player or a Set Top Box.

Press the END and *** EPG** buttons at the same time (5 secs). The display at the top left of the remote control flashes twice.

Enter the numbers 991 one after the other. The display flashes once after each number is entered.

Press the **# PIP** button to select the first code.
Hold the remote control pointed towards the device you want to switch over to. Watch the device.

Now press the ▸ (Play) or ⏻ (On/Off) button on the remote control.
Wait a moment for the reaction of the device. If the device does not react, the code is incorrect.

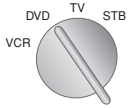
Press the **# PIP** button to call the next code.

Press the ▸ (Play) or ⏻ (On/Off) button again.

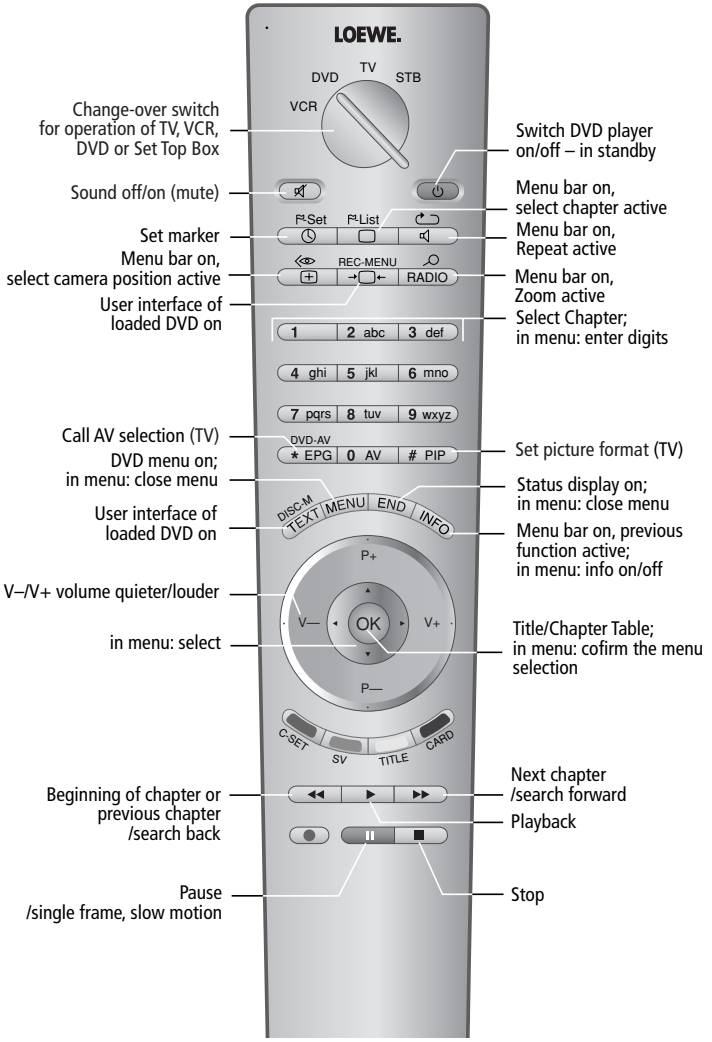
If the device reacts, press the *** EPG** button to confirm the code.

Operating additional equipment

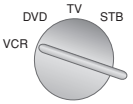
Remote control RC3 for operating a DVD recorder or DVD player



Set the rotary switch to "DVD".

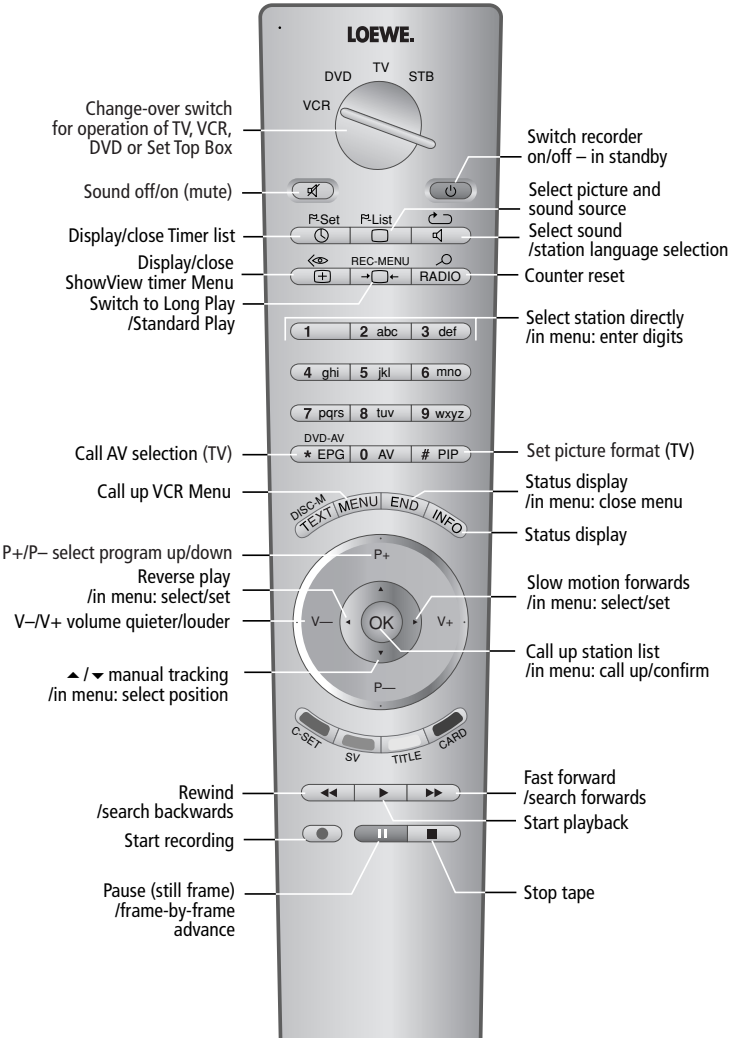


Using the RC3 remote control for operating a video recorder



Set the rotary switch to "VCR".

The infrared code and the functional scope for a Loewe VCR is set ex-factory.



Operating additional equipment

Rotating the TV set

(Only possible for Spheros 32/37 HD and equipped with ”Motor Unit”).
If the screen is mounted on a "Motor Unit" you can rotate it with the remote control to suit your sitting position.

Launch the TV menu:
Press **MENU** on the remote control.

Select the ”Rotate TV” bar.

You determine the direction of rotation right, stop or left with the arrows on the button.

Close the menu.

Note:
Do not place any objects in the range of rotation of the TV set which could obstruct rotation or be knocked over in the process. Before activating the rotary function, make sure that the set can rotate freely and unhindered.

Viewing angle, range of rotation

Setting the rotation area (a maximum of +/- 40 degrees)

With this menu, you can determine the maximum rotation to the left and right.

Press **MENU** on the remote control.

Highlight the ”Settings” bar.

Press **OK**, then to ”other...”

Highlight the ”Rotate TV” bar, press **OK**.

Select line "Basic adjustment".

Press the **OK** button.

You set the desired maximum range of rotation to the right by pressing the ring (right). Rotation stops when you release the ring.

The setting is saved by pressing **OK** .

Then set the desired maximum rotation to the left by pressing the ring (left).

Confirm with **OK**.

Press **END** to exit the menu.

Determining the switch off position
Here you determine the position of the screen (TV set) which is adopted when switching off providing you have activated this function.

Press **MENU** on the remote control.

Highlight the ”Settings” bar.

Press **OK**, then to ”other...”

Highlight the ”Rotate TV” bar, press **OK**.

The menu "Rotate TV" appears. Select
Define "Switch-off position".

You set the desired switch off position to the right or left by pressing the ring.

Rotation stops when you release the button.

Save the "set switch-off position" with **OK**.

Connecting Loewe sound systems

Function switch off position on/ off
You determine whether the TV set moves back to the determined switch off position when switched off with the remote control (the set cannot be operated during this time, approx. 35 seconds).

Press **MENU** on the remote control.

Highlight the "Settings" bar.

Press **OK**, then to "other..."

Highlight the "Rotate TV" bar, press **OK**.

If you select "**yes**" in the line "Activate switch off position" the TV set will turn to the set position when switching off with the remote control.
The TV does not rotate when switching off if "**no**" is selected under "Activate switch off position".
The TV set stays at the last set position when it is switched off.

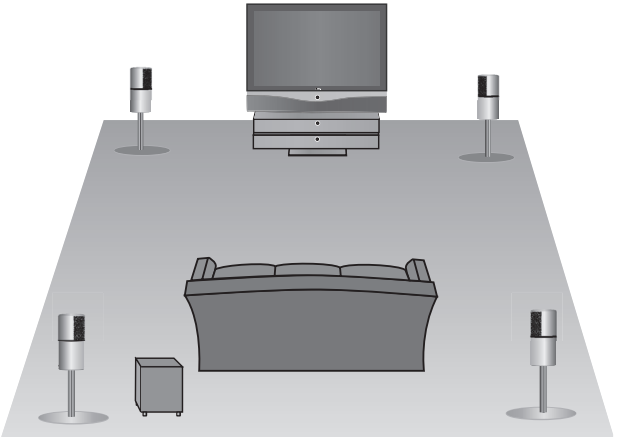
Press **END** to exit the menu.

Loewe Audio systems and active speaker systems

- Concertos 1
- Concertos 2
- Certos with Concertos
- Tremo and Dolby Digital Decoder

In connection with a Loewe TV with a Loewe audio system and a Loewe speaker system you have an excellently tuned Home Cinema system. Advantages are high operating comfort, attractive design and adapted technology.

The speakers and the TV set can be arranged as illustrated below, for example.
The arrangement of the speakers and the television set might look as depicted below. However, the layout of the front and surround speakers should be set up in symmetry to the television set and your sitting position.
The surround speakers can also be set up behind your sitting position, facing towards the front speakers.
The Acoustimass® module can also be set up in another place, e.g. particularly effective behind your sitting position, but in such a way that the bass frequencies are able to radiate freely.



The Concertos sound system offers you a new type of sound dimension in music and film performances with integrated electronics.
Even at low volumes, you can then hear the full bass in the correct ratio to the higher and medium frequencies.

Loewe offers two sound systems **Concertos 1** and **Concertos 2**, consisting of an Acoustimass® Module, a set of cables and the satellite speakers.
If the integrated speakers of the TV set are not to be used for the center channel, then **Concertos 1** with five Loewe satellite speakers can be connected.

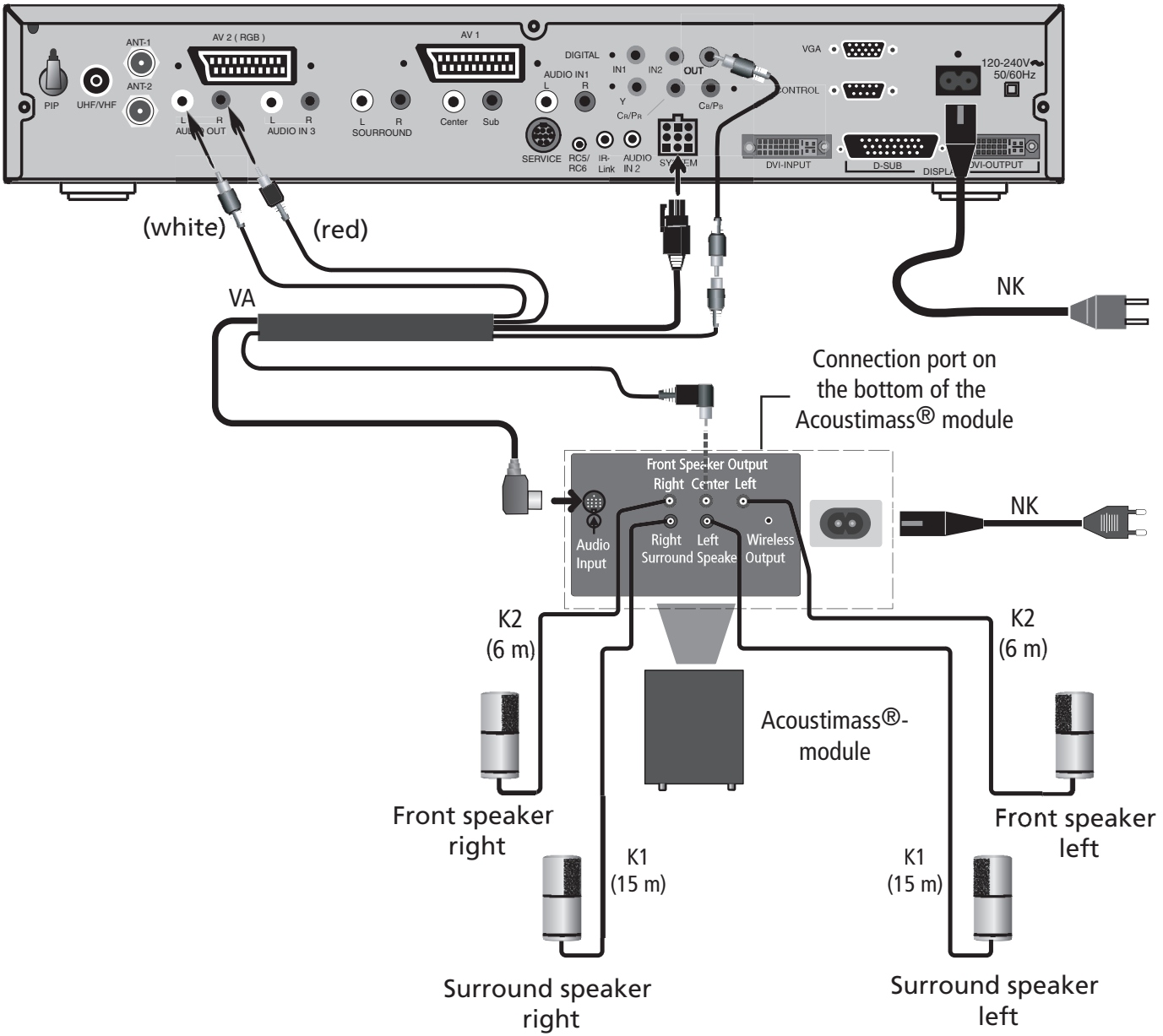
Use the integrated speakers of the TV as a center channel, then use **Concertos 2** with only four satellite speakers.

Connecting Concertos components:
Before connecting the devices, ensure that they are switched off or pull out the mains plug.
Connect the components of the Concertos system to the TV set, as shown on page 28.

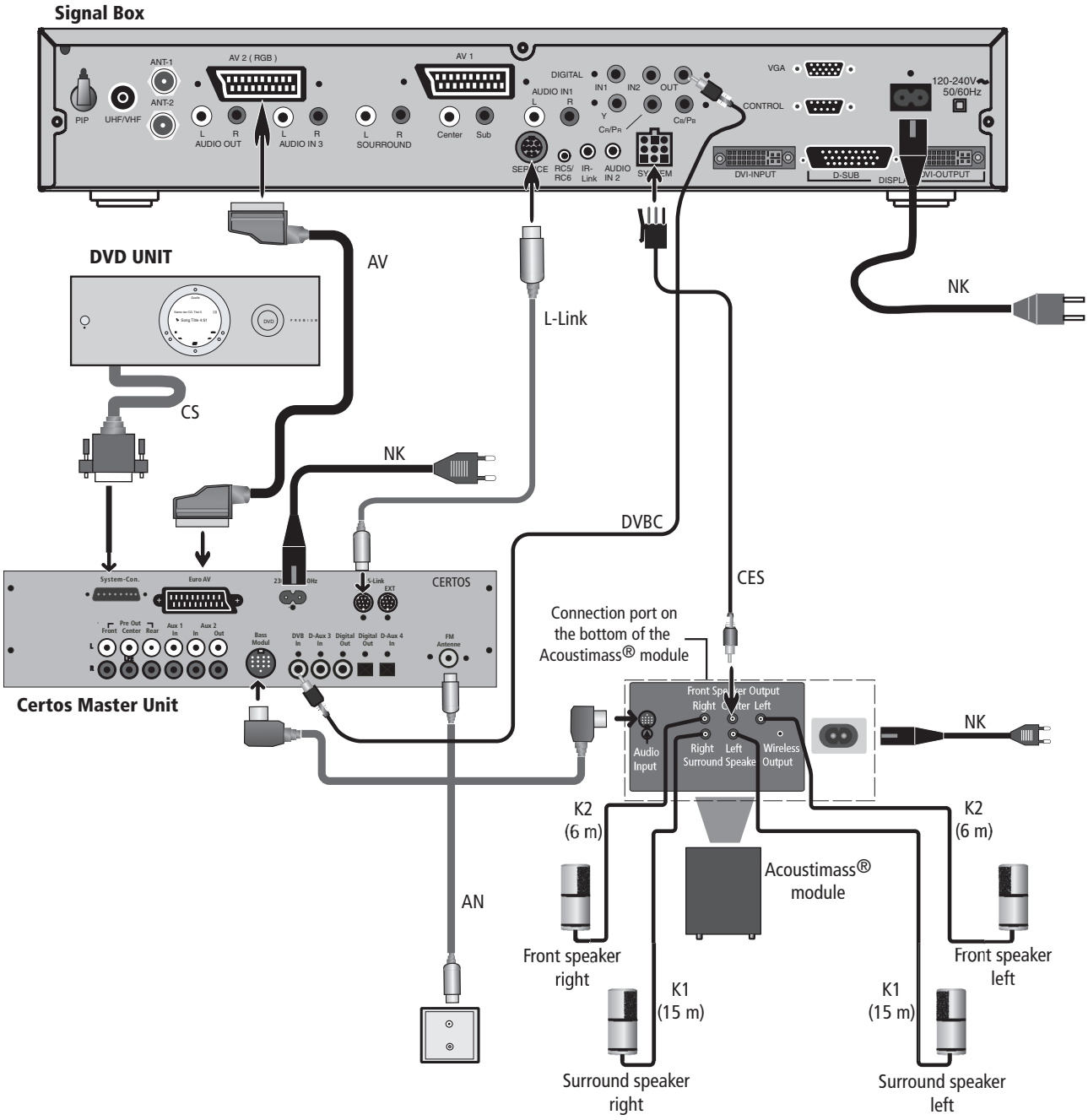
First use:
To put Spheros into use with the Concertos system, some settings from the Sound menu of Spheros are required.
In this context, please read the separate Operating Instructions "Concertos 1 / 2 – Sound".

Loewe sound systems Concertos

Signal Box



Loewe sound systems Certos/Concertos



Connecting the DVD Preceiver Auro 8116 DT and Tremo

Connecting the Loewe DVD Preceiver Auro 8116 DT to the Signal Box Spheros 32/37 HD or Xelos SL 32/37 HD

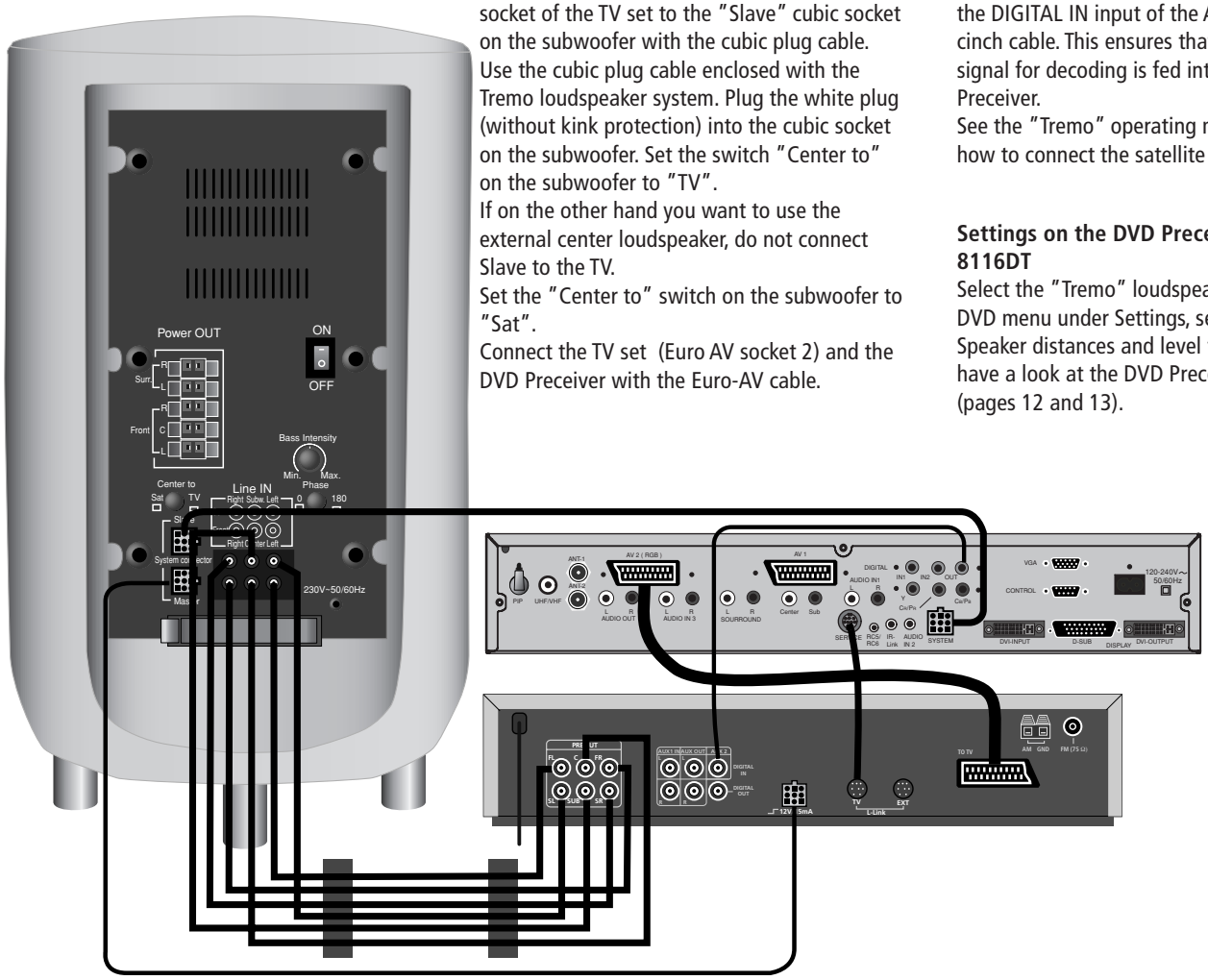
When you use the Loewe DVD Preceiver in connection with a Loewe TV set, connect the Tremo loudspeaker system to the audio outputs of the DVD Preceiver.

Connect the cubic socket on the DVD Preceiver to the "Master" cubic socket on the Tremo subwoofer. Use the cubic plug cable enclosed with the DVD Preceiver Auro (2-wire cable). Plug the white plug (without kink protection) in the cubic socket on the subwoofer.
If the loudspeakers of the Loewe TV set are used for center reproduction, connect the cubic socket of the TV set to the "Slave" cubic socket on the subwoofer with the cubic plug cable. Use the cubic plug cable enclosed with the Tremo loudspeaker system. Plug the white plug (without kink protection) into the cubic socket on the subwoofer. Set the switch "Center to" on the subwoofer to "TV".
If on the other hand you want to use the external center loudspeaker, do not connect Slave to the TV.
Set the "Center to" switch on the subwoofer to "Sat".
Connect the TV set (Euro AV socket 2) and the DVD Preceiver with the Euro-AV cable.

Connect the TV set (Service socket) to the TV-L-Link socket of the DVD Preceiver with the L-Link cable (delivered with the DVD Preceiver) . This ensures that the Tremo loudspeaker system is switched on during radio or CD playback from the DVD Preceiver but the TV remains switched off.
Connect the digital output of the TV set with the DIGITAL IN input of the Auro system with a cinch cable. This ensures that the digital audio signal for decoding is fed into the DVD Preceiver.
See the "Tremo" operating manual to find out how to connect the satellite loudspeaker.

Settings on the DVD Preceiver Auro 8116DT

Select the "Tremo" loudspeaker system in the DVD menu under Settings, set the Listener/ Speaker distances and level the speakers. Also have a look at the DVD Preceiver manual (pages 12 and 13).



Displaying PC images (VGA/DVI)

Your Spheros/Xelos has a digital visual interface (DVI) with which you can show PC images on the TV screen for example.

Connecting personal computers
Connect the PC directly to the socket labeled "DVI" on the back of the Signal Box. The digital audio signal can be connected to the input "Digital In 1 or 2". If your PC does not have a DVI interface, please use a VGA/DVI adapter cable. This is available from electronics and computer dealers. Connect the analogue audio output of the PC to the "AUDIO IN 2" socket. The TV set can be connected to the following standards: VGA (640x480 @85Hz), XGA (1024x768 @85Hz), SVGA (800x600 @85Hz) or SXGA (1280x1024 @75Hz).

DDC Function (Display Data Channel)
The DDC function automatically detects graphic resolutions supported by the TV set.
If you wish to use the DDC function, first connect the PC to the TV set via the VGA or DVI socket. Boot the PC. Regardless of whether the TV set is on or off, you can select the graphic resolution (e.g. XGA 1024 x 768 at 75 Hz) in the "Properties" menu on the PC.

Launch the program for displaying PC images

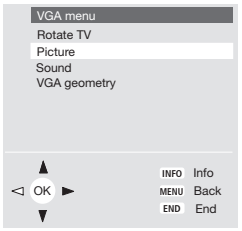
Press the (Zero) key and "AV Selection" appears.

Choose "VGA"/XGA"

PC image settings
If a PC image is displayed on the screen, you can call up the "VGA menu".

Call up the VGA menu and…

Highlight the "Picture" line



Confirm

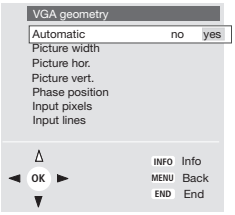
In the **"Image"** menu, you can select the contrast, brightness, sharpness, picture format, colour standard (not with DVI) etc. and adjust the light ratios to your personal preferences.
To display pictures, you can select the format 4:3, since most camera pictures are taken in this format.
For an optimum display and maximum picture focus of standards VGA and SVGA, you can select **"Original"** under "Picture format". In this case the exact format values of the graphic card must be known and set in the menu "VGA geometry".

In the "**Sound**" menu, you can set the volume of the loudspeakers or headphones, or select the tone for two-tone playback.

VGA geometry settings

In the VGA menu, select the line "VGA Geometry"

Launch



The setting options are restricted in "DVI".

Select "**Automatic yes**" on a computer with a conventional graphics format.
Your Spheros will automatically adjust to the supplied image format.

Special graphic format may require further settings to be made:

- Set the picture width
- Move the picture horizontally, to the left or right
- Move the picture vertically, upwards or downwards
- Set the phase position to give a picture that is as jitter-free as possible
- "Input pixels" allows you to set the horizontal resolution of the PC image.
- "Input lines" allows you to set the vertical resolution of the PC image.

Save settings

Pressing the **END** key on the remote control hides the menu.

Selection possibilities for the "COMPONENT IN" socket: Choose the menu "Connections" and set it as follows: Connections: Connection plan → Device selection → others → Device to COMPONENT IN socket **yes**. After pressing **OK** several times, you get the menu "Connections" with the following selection possibilities:

- Automatic, it is detected automatically which signal SDTV or HDTV/Pro scan is applied at the "COMPONENT IN" socket.
- SDTV for PAL with 625 lines, 50 Hz interlaced or NTSC 525 lines, 60 Hz interlaced
- HDTV for high definition video signals
- Pro scan for 625 lines/50 Hz or 525 lines/60 Hz progressive.
- With **OK**, you finally get the menu "Connections: Assign Audio Digital".

What to do when ...

Problem	Possible cause	Remedy
Various menu items cannot be called (shown in gray) or the menus for the EPG and teletext modes of operation cannot be called	"Simplified operation" activated in the main information.	Deactivate "Simple control" in the Main Information, press the **i**-key, select "Select control level" and call up with **OK**. Set "Simple control" to "no".
Record and Timer are not displayed in the video menu	No VCR or DVD recorder logged in and no digital recorder installed	Log in VCR in the TV menu - Connections.
"Connections" for example cannot be called in the video menu (grayed out)	a) A timer recording is in progress (not with serial timer recording) b) You are recording from the TV set with the video bar	a) Wait until the timer recording has ended or clear the timer. b) Stop recording.
In the TV menu, the menu item "Programs" is missing and in the Main Information the item "Automatic channel search" and connections	The child lock is activated. If these menus were accessible, children could still set the programs.	Deactivate program-related child lock: Switch off child lock or enter PIN in the TV menu - Settings.
Control of the Loewe VCR with the video control bar and the timer does not work or does not work properly	a) The VCR's Digital Link function is not activated or not possible b) Euro-AV cable not connected c) Video recorder not logged in	a) Activate Digital Link in the VCR (see operating instructions of the VCR) b) Connect the Euro-AV cable c) Log in the VCR
General problems with connecting external devices through an AV input	a) The device is not logged in in the "Connections" menu or is connected differently to shown in the connection diagram b) The AV norm is set incorrectly c) The AV signal is set incorrectly	a) Compare the connection diagram with the actual installation in the "Main information" under "Connections" and connect as shown if necessary. b) Set the correct norm. c) Set the correct AV signal. If "Automatic" is set for AV norm or AV signal, this can lead to wrong detection in the case of non-standardized signals. In this case the norm and signal must be set according to the operating instructions of the external device.

What to do when ...

Problem	Possible cause	Remedy
Connection of a decoder does not work or does not work properly	a) The signal is not decoded because the correct decoder programs have not been selected in the TV menu - Connections b) The sound is missing in decoder mode because the wrong decoder sound is allocated in the TV menu - Connections	a) Follow the instructions in the TV menu - Connections again and select the appropriate decoder programs. b) Follow the instructions in the TV menu - Connections again and select the right sound source (decoder, TV or Autom.), see instructions of the decoder.
No sound through the TV loudspeakers	The item "Sound from..." in the Sound menu under "Sound" is not set to "TV"	Change the setting to "TV".
All menus appear in the wrong language	The wrong menu language has been set.	Set your menu language: 1. Switch off picture-in-picture (PIP) and switch off all on-screen displays (**END** button) 2. Call the TV menu (**MENU** button) 3. Select the last menu item and press **OK** 4. Select the last menu item on the last page and press the **OK** button 5. Now select the right language and.... 6. ... confirm with **OK**.
Digital Link Plus does not work	a) The VCR has not been logged in as a Digital Link Plus device or has been connected to the wrong socket b) The Euro-AV cable is not fully wired (Pin 10 not wired) c) Some video recorders can only take over the stations from the TV in initial installation d) All or some terrestrial or cable stations are stored at station slots ≥ 99	a) Log in the Digital Link Plus VCR under "Connections" and connect according to the diagram. b) Change the Euro-AV cable c) Reinstate the original state (ex-factory) of the VCR (see operating instructions of the VCR) d) Sort the terrestrial and cable stations so that they are between 1 and 99.
Various characters are displayed incorrectly in teletext	The wrong character set is set in the teletext menu	Set the right character set: Teletext menu - Settings - Character set - Standard or the appropriate character set.

Technical data

Type	Spheros 32 HD	Spheros 37 HD	Xelos SL 32 HD	Xelos SL 37 HD
Article no.	64406	64451	63443	63444
Dimensions (cm) LCD display without base				
W x H x D	84 x 58,5 x 9	99 x 68 x 9	84,5 x 58,5 x 8,5	99 x 68 x 9
Display technology	TFT-LCD	TFT-LCD	TFT-LCD	TFT-LCD
Image format	16:9	16:9	16:9	16:9
Image diagonal	80 cm	94 cm	80 cm	94 cm
Pixel format	1366 x 768	1366 x 768	1366 x 768	1366 x 768
Contrast ratio	800:1	800:1	800:1	800:1
Viewing angle horizontal./vertical	170 °	170 °	170 °	170 °
Weight (kg)	22,5	31	18,1	21,5
Power cons. (Watt)	135	170	135	170

Relative atmospheric humidity	35 ... 75% no condensation
Ambient temperature	0° – 40° Celsius

Spheros Signal Box

(with PhotoViewer)	
Protection class	2
Chassis name	S 2550
Dimensions (cm)	43 x 7,5 x 37 (W x H x D)
Weight (kg)	6.2
Power supply	120 V to 240 V / 50-60Hz
Power consumption	In operation up to 30 Watt Standby < 3 Watt

Signal Box

(with PhotoViewer and Digital Recorder)	
Protection class	2
Chassis name	S 2550
Dimensions (cm)	43 x 10.5 x 37 (W x H x D)
Weight (kg)	8.2
Power supply	120 V to 240 V / 50-60Hz
Power consumption	In operation up to 45 Watt Standby < 3 Watt

Full Digital	AMD / DNC adjustable
Tuner VHF/UHF/ cable (Hyper band 8 MHz)	42 MHz to 860 MHz
Station slot memory	220
with Digital TV ✳	1470

TV standards	PAL-B/G, PAL-D/K, PAL-I, PAL-L PAL M/N, PAL 60 Secam B/G, D/K, L NTSC / NTSCV
Teletext	Hi-Text (Level 2.5)
Sound norms	mono/stereo/2-sound Nicam B/G, L, I
Multi channel (optional)	Dolby Digital/PCM/ MPEG
Rated audio power	2 x 15 Watt / 6 Ohm
Audio music output	2 x 40 Watt / 6 Ohm
Speakers	2 closed boxes
Tweeter	2 x 20 mm
Bass	2 x 75 mm

Connections (Signal Box - front):

Mini-DIN	S-Video IN (AVS)	S-VHS / Hi 8
Cinch	Video IN (AVS)	VHS / 8 mm
Cinch	Audio IN	L / R
Jack 6.3 mm	headphones	32-200 Ohm

Connections (Signal Box - rear):

IEC socket 75 Ohm	Antenna / cable / PIP
✳ ANT 1 / 2	socket F 75 Ohm

EURO-AV 1:

Video IN	Y/C (S-VHS / Hi 8) (VHS / 8 mm)
Video OUT	Y/C (S-VHS / Hi 8) CVBS (VHS / 8 mm)
Audio	IN/OUT L / R

EURO-AV 2:

Video IN	Y/C (SVHS / Hi 8) CVBS (VHS / 8 mm) RGB
Video OUT	Y/C (SVHS / Hi 8) (Only for S-VHS Link Plus) CVBS (VHS / 8 mm)
Audio IN/OUT	L / R

Component IN:

Cinch	Y signal
Cinch	Cr/Pr signal
Cinch	Cb/Pb signal
2xCinch L / R	AUDIO OUT
2xCinch L / R	AUDIO IN 1
Jack socket 3.5 mm	AUDIO IN 2
2xCinch L / R	AUDIO IN 3
Cinch input socket IN 1	Digital sound
Cinch input socket IN 2	Digital sound
Cinch output socket OUT	Digital sound
SYSTEM-Bush, 9 poles	AUDIO
Infrared link	Jack socket 3.5 mm
RC5/RC6	Jack socket 2.5 mm
Service-socket	8-pin
Connection DVI/VGA input	26-pin Sub-D
VGA-Loewe Online input	15-pin Sub-D
CONTROL Online Plus	9-pin Sub-D
Connection LCD display	26-pin Sub-D
Connection LCD display	DVI OUTPUT

✳ Only in the set version with „Digital-TV kit 2 Sat/Twin-Sat CI".

Available accessories

Upgrade kits

Online Plus Box
Separate Online Plus Box for comfortable use of Internet, e-mail, etc. on the TV.

Sound-System Concertos Concertos 2
Exclusive 5.1 Digital-Surround Sound System. The center channel is reproduced by the integrated loudspeakers of the Spheros.

Certos
DVD/CD player with radio and Dolby Digital/ dts-decoder in unusual design.

Dolby Digital (AC3)
For decoding audio signals from the DVD player,
TV set or other audio equipment to a 5.1 playback with active speakers.

Loewe audio systems (Auro and Tremo) and active loudspeaker systems
A combination of a Loewe TV set, a Loewe audio system and a Loewe loudspeaker system provides an excellently adapted Home Cinema system with the advantages of high operating comfort, matching design and adapted technology.

Wireless Home Automation
For controlling the house lighting circuit, shutters etc.

Accessories

System cable from the Signal Box to the flat screen
10 meters long, article number 89236 M25.

Wall holder WM 51
The flat screen can be fixed to the wall and tilted up to 5 degrees.

Flat-TV F-Stand 3
TV set as a standing unit and mechanically rotatable.

Motor Unit
(only for Spheros 32 HD and 37 HD)
Motorized rotating table stand (+/– 35 degrees), can be controlled with the remote control.

Racks

Xelos Rack
With two shelves for video recorders or DVD players.

System Cube 1/2
(only for Spheros 32 HD and 37 HD)
Rack system with motor unit for rotating the TV set and shelves for VCRs, DVD players etc. (in conjunction with the Spheros Cube Adapter).

Cube Adapter Set
Adapter for mounting the set on the rack systems System Cube 1/2.

The code number 3001 cancels out a secret code and with it the child lock. Please keep it in a safe place.

Service Adressen/addresses/adresses/indirizzi/direcciones/adresy

Australia
International Dynamics Australasia Pty Ltd.
129 Palmer Street
AUS - Richmond, Victoria 3121
Tel. 03–94 29 08 22
Fax 03–94 29 08 33

Benelux
Loewe Opta Benelux NV/SA
Uilenbaan 84
B–2160 Antwerpen
Tel. 0902–88 00 2
Fax 030–280 33 27

Loewe Opta Nederland B.V.
Ravenswade, 54A1
NL–3439 LD Nieuwegein (Utrecht)
Tel. 0900–280 33 27
Fax 030–803 327

Česká republika
TIPA sdruzení
Dolní nám. 9
CZ–25069 Klicany/Pruha
CZ–746 01 Opava 1
Tel: 0653-62 49 44
Fax: 0653-62 31 47

GUS
Service Center Loewe
ul. Verkhnyaya Maslovka, d. 29
RUS–125083 Moscow
Tel. 095–212 50 43, 956 67 64
Fax 095–212 47 10

Cyprus
Pangratis Liveras & Son Ltd
P.O. Box 3426
Liveras Building
7 Ajax Street Saint Omologite
CY–Nicosia
Tel. 02–42 05 10
Fax 02–42 87 70, 42 06 53

Denmark
Turku TV Operations Ltd. Denmark
Roskildevej 342 G
DK–2630 Taastrup
Tel. 43 59 77 77
Fax 43 59 77 00

Deutschland
Loewe Opta GmbH
CustomerCareCenter
Industriestraße 11
D–96317 Kronach
Tel. 01801–22 25 63 93
Fax 09261–99 500

España
Gaplasa S.A.
Conde de Torroja, 25
E–28022 Madrid
Tel. 91–748 29 60
Fax 91–329 16 75

France
Sorep Import S.A.
11 rue de la Durance
F–67029 Strasbourg Cédex 1
Tel. 03–88 79 72 50
Fax 03–88 79 72 59

Great Britain
Linn Products Limited
PO Box 8465
Prestwick
UK – KA 7 2YF
Tel. 01292–47 15 52
Fax 01292–47 15 54

Hellas
SOUND HELLAS S.A.
Kleanthous Str. 10
GR–54642 Thessaloniki
Tel. 031–856 100
Fax 031–856 300

Helvetia
Telion AG
Rütistrasse 26
CH-8952 Schlieren
Tel. 01–732 15 11
Fax 01–730 15 02

Italia
General Trading Trust SpA
Via Vittorio Emanuele, 33
I–50041 Calenzano (FI)
Tel. 055–88 11 71
Fax 055–88 11 740

Magyarország
Basys Magyarorszagi KFT
Epitokutja 2-4
H–2040 Budaörs
Tel. 023–415 637-121
Fax 023–415 182

Norge
CableCom AS
Østre Kullerød 5
N–3214 Sandefjord
Tel. 033–48 33 48
Fax 033–44 60 44

Malta
Mirage Holdings Ltd
Flamingo Complex
Cannon Road
M–Qormi
Tel. 49 71 82
Fax 44 59 83

Österreich
Robert Bosch AG
Postfach 146
A–1011 Wien
Tel 01–79 72 24 500
Fax 01–79 72 24 599

Polsko
Piotech
ul. Boh. Getta Warszawskiego 18
PL–81-609 Gdynia
Tel. 058 62 43 467
Fax 58 62 45 009

Portugal
Videoacustica
Comercio e Representacoes de
Equipamentos Electronicos S.A.
Estrada Circunvalacao
Quinto do Paizinho, arm. 5
P–2795-632 Camaxide
Tel. 21–42 41 770
Fax 21–88 0 93

Sverige
Canseda AB
Amalia Jönssons Gata 19
S–42131 Västra Frölunda
Tel. 031–70 93 760
Fax 031–47 65 15

Slovenija
Jadran Trgovsko Podjetje
Partizanska cesta 69
SL–6210 Sezana
Tel. 067–391 402
Fax 067–391 400

Turkey
Enkay Elektronik Servis Müdürlügü
Ambarlar Cad: No: 3/C
Zeytynburmu / Istanbul
Tel. 0212–582 36 69
Fax 0212–671 80 39

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Subject to modification

Codelist RC3

Loewe

DVD-Player 0539
DVD-Recorder ?1922?
STB 1127
VCR 0866

DVD

3DLAB 0539
A-Trend 0714
Acoustic Solutions 0730
AEG 0788 0770
Aiwa 0641 0695
Akai 0790 0788 0690 0716 0713 0705
AKI 0718
Akira 0699
Alba 0717 0699 0713 0723 0695
All-Tel 0790
Amitech 0770
Amstrad 0713
Apex Digital 0672
Audiosonic 0690
AWA 0730
Black Diamond 0713
Blaupunkt 0717
Blue Sky 0699 0695 0713 0672 0651
Boman 0783
Brain Wave 0770
Brandt 0651 0551
Bush 0699 0690 0689 0717 0713 0818
0695 0831 0723
C-Tech 0768
Cambridge Audio 0696
Cambridge Soundworks 0696
CAT 0699
Celestial 0672
Centrex 0672 1004
Centrum 0713
cineULTRA 0699
Classic 0730
Clatronic 0788
Clayton 0713
Coby 0730
Conia 0672
Crown 0770 0651 0690
Cybercom 0831
CyberHome 0714 0816
Cytron 0716 0651 0705
Daewoo 0770 0705 0714
Daewoo International 0699
Dansai 0770 0783
Dantax 0723
DEC 0699 0818
Decca 0770
Denon 0490 0634
Denver 0699 0788
Denzel 0665
Diamond 0651 0768 0723
Digihome 0713
digiRED 0717
Digitrex 0672
DiK 0831
Dinamic 0788
DiViDo 0705
DK digital 0831
DMTECH 0783 0790
Dragon 0831
Dual 0665 0651 0713 0730 0783 0790
0831
E-Boda 0723
Eclipse 0723
Electrohome 0770
Elin 0770
Elta 0690 0770 0788 0790
Emerson 0591 0705
Enzer 0665
Ferguson 0651
Finlux 0741 0770 0783
Firstline 0651
Funai 0695
GE 0717
Global Solutions 0768
Global Sphere 0768
Go Video 0783
GoldStar 0591 0741
Goodmans 0651 1004 0790 0690 0783
0723 0818
Graetz 0665
Grandin 0716
Grundig 0539 0695 0651 0775 0705 0790
0713 0670 0723
Grunkel 0770
H&B 0818 0713
Haaz 0768
Hanseatic 0741
HCM 0788
HDT 0705
HE 0730
Henß 0713
Hitachi 0664 0665 0573
Hiteker 0672
Home Electronics 0730
Hyundai 0783
Ingelen 0788
ISP 0695
Jeken 0699
JMB 0695
JVC 0623 0539 0503 1901 1940
Karcher 0783
Kendo 0699
Kenwood 0534 0490 0737
Kiiro 0718 0770
Kingavon 0818
Kiss 0665
Koda 0818
Koss 0651
Lawson 0705 0716 0768
Lecson 0696
Lenco 0699 0651 0770 0818
Lenoxx 0690
Lexia 0699
LG 0591 0741 1906
Lifetec 0651
Limit 0716 0768
Loewe 0539 1922
LogicLab 0768
Logix 0705 0783
Lumatron 0705
Luxman 0573
Luxor 1004
Magnavox 0503 0818
Magnex 0723
Manhattan 0705
Marantz 0539
Mark 0713
Matsui 0651 0695
MBO 0690 0730
MDS 0699
Medion 0651 0783 0716 0831
Memorex 0831
Metz 0571 0713
MiCO 0723

Microboss					0718
Micromaxx					0695
Micromedia				0503	0539
Micromega					0539
Microsoft					0522
Microstar					0831
Minax					0713
Minoka					0770
Mitsubishi					0713
Mizuda					0818
Monyka					0665
Mustek					0730
Mx Onda				0651	0723
NAD					0741
Naiko					0770
Neufunk					0665
Nordmende					0831
Omni				0690	0699
Onkyo				0627	0503
Optimus					0571
Orava					0818
Orion					0695
Oritron					0651
P&B					0818
Pacific		0768	0790	0713	0831
Palladium					0695
Palsonic				0689	0672
Panasonic				0490	1908
Panda					0783
Philips		0539	0646	0503	1914
Phonotrend					0699
Pioneer		0571	0631	1900	1902
Pointer					0770
Powerpoint					0718
Proline		0651	0672	0790	1004
Proscan					0522
Prosonic					0699
Provision					0699
Radionette					0741
Raite					0665
Rank Arena					0718
RCA				0522	0651
REC				0689	0490
Red Star				0770	0788
Reoc					0768
Revoy					0699
Roadstar	0699	0690	0689	0713	0818

Rotel					0623
Rowa					1004
Saba					0651
Sabaki					0768
Salora					0741
Samsung				0573	0490
Sansui	0695	0716	0768	0723	0770
Sanyo			0670	0695	0790
Scan					0705
ScanMagic					0730
Schaub Lorenz				0788	0770
Schneider	0651	0783	0705	0790	0788
Scientific Labs					0768
Scott			0718	0651	0672
SEG			0665	0713	0768
Shanghai					0672
Sharp				0630	0695
Sherwood			0717	0741	0633
Shinco					0717
Silva					0788
SilvaSchneider					0831
Singer			0690	0716	0723
Skymaster				0730	0768
Slim Art					0770
SM Electronic			0730	0768	0690
Smart			0718	0705	0713
Sonashi					0716
Sony		0533	0573	1903	1904
Soundmaster					0768
Soundmax					0768
Soundwave					0783
Standard				0651	0768
Starmedia					0818
Sunwood					0788
Supervision				0730	0768
SVA					0672
Synn					0768
Tandberg					0713
Tatung					0770
Teac	0717	0741	0571	0768	0591	0790
Technics				0490	1908
Technika					0770
Techwood					0713
Tensai				0690	0651
Tevion				0651	0768
Theta Digital					0571
Thomson				0551	0522

Tokai				0665	0788
Tokiwa				0705	0716
Toshiba					0503
Umax					0690
United	0788	0730	0790		
Universum	0741	0713	0591		
Venturer					0790
Vieta					0705
Voxson				0730	0831
Walkvision					0717
Welkin					0831
Wesder					0699
Wharfedale				0696	0723
Windy Sam					0573
XBox					0522
XLogic				0770	0768
XMS				0788	0689
Yamada					1004
Yamaha	0490	0539	0646		
Yamakawa	0665	0710	0765		
Yelo					0718
Yukai					0730
Zenith	0503	0591	0741		

VCR

Adyson 0072
Aiwa 0307 0000 0209 0348 0352 0037 0041
Akai 0106 0315 0041 0352 0240
Akashi 0072
Akiba 0072
Akura 0072 0041
Alba 0278 0072 0209 0352 0000 0315 0348 0081
Allorgan 0240
Allstar 0081
Amstrad 0000 0278 0072
Anitech 0072
Ansonic 0000
Aristona 0081
ASA 0037 0081
Asuka 0072 0037 0081 0000 0038
Audiosonic 0278
AVP 0352 0000
AWA 0037 0278 0642 0043
Baird 0106 0278 0104 0041 0000
Basic Line 0278 0209 0072
Bestar 0278
Black Diamond 0642 0278
Black Panther 0278
Blaupunkt 1562 0226 0081
Blue Sky 0037 0209 0348 0072 0352 0278 0000
Bondstec 0072
Brandt 0041 0320
Brandt Electronique 0041
Brinkmann 0209 0348
Bush 0072 0278 0315 0209 0352 0000 0348 0081
Carena 0209 0081
Carrefour 0045
Casio 0000
Cathay 0278
CGE 0041 0000
Cimline 0072 0209
Clatronic 0072 0000
Combitech 0352
Condor 0278
Crown 0278 0072
Cyrus 0081
Daewoo 0278 0642 0209 0348 0352 0045
Dansai 0072 0278
Daytron 0278
de Graaf 0042 0081 0104 0048
Decca 0000 0041 0081 0067 0348 0209
Deitron 0278
Denko 0072
Diamant 0037
Domland 0209
Dual 0041 0081 0278 0000
Dumont 0000 0081 0104
Elbe 0278 0038
Elcatech 0072
Elin 0240
Elsay 0072
Elta 0072 0278
Emerson 0072 0045 0000
ESC 0278 0240
Etzuko 0072
Fast 0897
Ferguson 0041 0320 0000 0278
Fidelity 0000 0072 0240
Finlandia 0104 0081 0042 0000 0048 0384
Finlux 0000 0081 0104 0042
Firstline 0072 0209 0348 0043 0037 0045 0042 0278
Fisher 0047 0104 0038
Flint 0209
Frontech 0072
Fujitsu 0000
Funai 0000
Galaxi 0000
Galaxis 0278
GE 0320
GEC 0081
General Technic 0348
Genexxa 0104
Goldhand 0072
GoldStar 0037 0000
Goodmans 0000 0072 0240 0278 0037 0081 0348 0209 0352 0642
Graetz 0041 0104 0240
Granada 0104 0048 0081 0240 0037 0226 0042 0000
Grandin 0072 0037 0000 0278 0209
Grundig 0081 0347 0226 0320 0348 0072
Haaz 0348 0209
Hanimex 0352
Hanseatic 0037 0209 0278 0081 0038
Harwood 0072
HCM 0072
Hinari 0072 0209 0352 0041 0278 0240
Hisawa 0209 0352
Hischito 0045
Hitachi 0042 0041 0000 0240 0081 0104 0384
Hornyphone 0081
Hypson 0072 0209 0278 0352
Imperial 0000 0240
Ingersoll 0209 0240
Inno Hit 0240 0278 0072
Interbuy 0037 0072
Interfunk 0081 0104
Internal 0278
International 0278 0037
Intervision 0000 0278 0037 0209 0348
Irradio 0072 0037 0081
ITT 0106 0041 0384 0104 0240
ITT Nokia 0048
ITV 0278 0037
JMB 0209 0352
Joyce 0000
JVC 0041 0067 0384
Kaisui 0072
Kambrook 0037
Karcher 0278
Kendo 0106 0209 0315 0348 0072 0037
Kenwood 0041 0038
KIC 0000
Kimari 0047
Kneissel 0352 0209 0348 0037
Kolster 0209 0348
Korpel 0072
Kuba 0047
Kuba Electronic 0047
Kuwa 0226
Kyoto 0072
Lenco 0278
Leyco 0072
LG 0037 0000 0278
Lifetec 0209 0348
Loewe 0081 1562 0226 0866 0037
Logik 0240 0072 0106 0209
Lumatron 0278
Luxor 0106 0043 0072 0104 0047 0048

Magnavox	0081
Manesth	0072 0045 0081 0209
Marantz	0081 0038 0209
Mark	0278
Matsui	0209 0348 0037 0240 0352 0000
Mediator	0081
Medion	0209 0348 0352
Melectronic	0000 0037 0038
Memorex	0104 0000 0037 0048 0047
Memphis	0072
Metz	1562 0347 0081 0226 0037
Micormay	0348
Micromaxx	0209
Migros	0000
Mitsubishi	0043 0067 0081
Multitec	0037
Multitech	0000 0072 0104
Murphy	0000
Myryad	0081
NAD	0104
National	1562 0226
NEC	0041 0038 0067 0104 0037
Neckermann	0041 0081
Nesco	0072 0000 0352
Neufunk	0209
Nikkai	0072 0278
Nokia	0104 0106 0315 0041 0278 0240 0048 0042 0081
Nordmende	0041 0384 0320 0067
NU-TEC	0209 0348
Oceanic	0000 0048 0106 0081 0104 0041
Okano	0315 0209 0348 0072 0278
Orbit	0072
Orion	0209 0352 0348
Orson	0000
Osaki	0000 0037 0072
Osume	0072
Otake	0209
Otto Versand	0081
Palladium	0072 0315 0037 0041 0209 0240 0348 0432
Palsonic	0072 0000
Panasonic	1562 0226
Pathe Cinema	0043
Pathe Marconi	0041
Perdio	0000 0209
Philco	0038 0072
Philips	0081 0384
Phoenix	0278
Phonola	0081
Pioneer	0067 0081 0042
Portland	0278
Prinz	0000
Profitronic	0081 0240
Proline	0000 0320
Prosco	0278
Prosonic	0209 0278 0000
Protech	0081
Provision	0278
Pye	0081
Quasar	0278
Quelle	0081
Radialva	0037 0072 0081 0048
Radiola	0081
Rank	0041
Reoc	0209 0348 0278
Rex	0041 0384
RFT	0072
Roadstar	0240 0072 0037 0278
Royal	0072
Saba	0041 0320 0384 0278
Saisho	0209 0348
Salora	0043 0106 0104
Samsung	0240 0432
Sansui	0041 0067 0106 0072 0348
Sanyo	0104 0047 0048 0067
Saville	0352 0278 0240
SBR	0081
Scan Sonic	0240
Schaub Lorenz	0041 0104 0000 0106 0315
Schneider	0072 0000 0037 0081 0278 0240 0042 0897
Seaway	0278
SEG	0072 0240 0278 0642 0081
SEI	0081
Sei-Sinudyne	0081
Seleco	0041 0384 0037
Sentra	0072
Setron	0072
Sharp	0048 0037 0569
Shintom	0072 0104
Shivaki	0037
Siemens	0037 0104 0081 0320 0347
Siera	0081
Silva	0037
Silver	0278
Singer	0045
Sinudyne	0081 0209
Smaragd	0348
Sonitron	0047
Sonneclair	0072
Sonoko	0278
Sonolor	0048
Sontec	0037 0278
Sony	0032 0106
Soundwave	0037 0209 0348
Ssangyong	0072
Standard	0278
Starlite	0037 0104
Stern	0278
Sunkai	0209 0348 0278
Sunstar	0000
Suntronic	0000
Sunwood	0072
Supra	0037 0240
Symphonic	0000 0072
T+A	0226
Taisho	0209
Tandberg	0278
Tashiko	0000 0048 0240 0081 0037
Tatung	0000 0041 0081 0048 0043 0209 0348 0352
Teac	0072 0041 0000 0278 0642 0037 0081 0307
TEC	0278 0072
Tech Line	0072
TechniSat	0348 0209
Teleavia	0041
Telefunken	0041 0320 0384 0278
Teletech	0072 0278 0000
Tenosal	0072
Tensai	0000 0037 0072
Tevion	0348 0209
Thomson	0320 0041 0067 0384 0278
Thorn	0041 0104 0037
Thorn-Ferguson	0320
Tokai	0072 0037 0041 0104
Tokiwa	0072
Topline	0348
Toshiba	0045 0041 0384 0043 0081
Towada	0072

Tredex 0278
Uher 0037 0240
Ultravox 0278
Unitech 0240
United Quick Star 0278
Universum 0000 0081 0240 0037 0106
0348 0209 0104
Victor 0067
Watson 0081 0352 0278 0642
Weltblick 0037
Yamaha 0041
Yamishi 0072 0278
Yokan 0072
Yoko 0037 0072 0240
ZX 0209

SAT (STB)

@sat 1300
ABsat 0668 0123 1323 0710
ADB 0642
Adcom 0200
AGS 0668 0710
Akai 0200
Akena 0668
Alba 0455 0713
Allsat 0200 1017 1043
Alltech 0713
Alpha 0668 0200
Altai 0396
Amitronica 0713
Ampere 0396 0132
Amstrad 0847 0713 0742 0396 0132 0882
0885 0863 0501 0795 1113
Anglo 0713
Ankaro 0713
AntSat 1017 1083
Apollo 0455
Arcon 1205 1043 0834 0132 1075
Armstrong 0200
Asat 0200
ASLF 0713
AssCom 0853
Astacom 0668 0710
Aston 1129
Astra 0607 0713
Astro 0133 0173 0501 0658 0607 1113
1099 1100 0200
Athena 0668
Atlanta 0871
Aurora 0879
Austar 0863 0642 0497 0879 1176
Avalon 0396
Axiel 0668 0710
Axis 1111 0834
Beko 0455
Bentley Walker 1017
Blaupunkt 0173
Blue Sky 0713 0885
Boca 0132 0713
Boston 0132 0710 0668
Broco 0713
BskyB 0847 1175
BT 0668 0710
Bubu Sat 0713
Cambridge 0501
Canal Satellite 0853
Canal+ 0853
Cherokee 0123 0710 1323
Chess 0157 0605 0713 1085
CityCom 1176 0115 0607 0299
Clemens Kamphus 0834 0396
Cobra 0396
Colombia 0668 0132
Columbia 0132
Columbus 0668
Comag 0132
Condor 0607
Connexions 0396
Conrad 0607 0573 0115 0501
Conrad Electronic 0607 0713
Cryptovision 0455 0795
Cyrus 0200
D-box 1127 1114 0723
Daeryung 0396
Daewoo 1296 0713
Delfa 0863
Deltasat 1075
DGTEC 1242
Digatron 1294
Digenius 0299
Digiality 0607
Digipro 1105
DigiQuest 0863
Discoverer 0605 0157
Discovery 0668 0710
Diseqc 0710
Distratel 0084 0885 1205
Distrisat 0200
DMT 1075
DNT 0200 0396
DREAM multimedia.TV 1237
DStv 0642 0879
Echostar 0610 1169 0871 0167 0853 1086
1200 0454 0396 0713 0668 0511 0453
Einhell 0132 0713 0501
Elap 0713 1129 0668 0710
Elsat 0713
Elta 0200
Emme Esse 0871
Engel 1017 0713
EP Sat 0455
Eurieult 0084 0885 0882
Eurocrypt 0455
Europa 0863 0607 0501 0200
Europhon 0299 0607
Eurosky 0607 0132 0299 0115 0114 0501
Eurostar 0607 0115
Fenner 0668 0157 0605 0713
Ferguson 0455
Fidelity 0501
Finlandia 0455
Finlux 0573 0455
Flair Mate 0713
Force 1101
Fortec Star 1017 1083
Foxtel 0879 0720 0455 0497 0795 1176
Fracarro 0871 0668
Freecom 0501 0173
Freesat 0882
FTEmaximal 0713 0863
Fuba 0396 0173 0573 0115 0299
Fugionkyo 1105
Galaxis 1111 1101 0834 0863 1176 0853
0115 0879
Garnet 1075
GF 0834 1043
GF Star 1043
GOD Digital 0200
Goldbox 0853
Goldvision 1017
Gooding 0571

Goodmans 1284 0455
Gradiente 0887
Granada 0455
Grandin 0084
Grundig 0173 0847 1150 1291 1435 0571
0750 0879 0885 0853 0501 1297 1330
Hanseatic 0605 1099 1100
Hänsel & Gretel 0132 0607
Hauppauge 1294
HDT 1011
Heliocom 0607
Helium 0607
Hirschmann 0396 0882 1113 1111 0173
0573 1085 0299 0501 0710 0607 0668
Hitachi 0455
HNE 0742 0132
Houston 0668 0396
Humax 1176 0863
Huth 0132 0607 1017 1075
Hyundai 1011 1159 1075
ID Digital 1176 0863
Imex 0084
Ingelen 0396 0882
International 0132
Interstar 1105 1017
Intervision 0628 0607
Invideo 0871
IRTE 0609
Italtel 0871
ITT Nokia 0573 0455 0723
JOK 0710
JVC 0571
K-SAT 0713
Kamm 0713
Kaon 1300
KaTelco 1111
Kathrein 0658 0249 1057 0173 1221 0200
0713 0668 0742 0123 0115 1323 0710
Kathrein Eurostar 0115
Kiton 0114
Klap 0668 0710
Konig 0607
Koscom 0834 1043
Kreiling 0658 0249 0114
Kreiselmeyer 0173
Kyostar 0132
L&S Electronic 1043

Labgear 1296
LaSAT 0607 0115 0132 0157 0299
Lenco 0713 0115 0607
Lenson 0501
Lexus 0200
LG 1075
Lifesat 0605 0299 1043 0713
Logix 1017 1075
Lorenzen 0299 1294 0607 0742 0132
Luxor 0573 0501
M&B1 0605
Manata 0710 0668 0713
Manhattan1083 0455 0710 0668 0834 1017
Marantz 0200
Maspro 0750 0713 0173 0571
Matsui 0571 0710 0173
Max 0607
MB 0605
Mediabox 0853
Mediacom 1206
MediaSat 0501 0853
Medion 0713 0299 1043
Medison 0713
Mega 0200
Metronic 0713 1215 0084 0885 1205
Metz 0173
Micro 0607 0501 0713
Micro electronic 0713
Micro Technology 0713
Micromaxx 0299
Microtec 0713
Minerva 0571
Mitsubishi 0455
Morgan's 0200 0713 0132
Motorola 0856
Multichoice 0642 0879
Multitec 0157
Myryad 0200
Mysat 0713
Netgem 1322
Neuhaus 0501 0713 0834 0607
Neusat 0713 0834
Nikko 0713 0723 0200
Nokia 1023 1114 0751 1127 0723 0853
0573 1223 0455 1723 1310 1312
Nordmende 0455
Nova 0879

OctalTV 1294
Okano 0668
OnDigital 0751 0329 0241 0867 0133
Optex 0834
Optus 0879 0853
Orbitech 1099 1100 0200 0501 0157
Origo 0497
Ouralis 1205
Oxford 0668
Pace 0455 0847 0887 1175 0241 0867
0123 1323 0791 0795 0720 0497 0200
0853 0710 1423
Packsat 0710
Palcom 0299
Palladium 0571 0501
Palsat 0501
Panasat 0879 0615
Panasonic 0847 1104 0455 1320
Panda 0455 0607 0173 0834
Patriot 0668
Philips 0200 1114 0853 0455 0750 0710
0668 0571 0173 0133 1336
Phonotrend 0863 1017 1200
Pioneer 0329 0853 0352
Planet 0871 0396
Polytron 0396
Praxis 0511
Preisner 0132 0396 1101 1113
Premiere 0853 1114 1127 0723 1111 1176
1195 1100 0249 0658 1435
Primacom 1111
Profile 0668 0710
Promax 0455
Prosat 0628
Prosonic 0742
Pye 0571
Pyxis 0834
Quadral 0628 0668 0710 1323
Quelle 0607 0742 0115
Radiola 0200
Radix 0396 1113 0882
RFT 0200
Roadstar 0713
Rover 0628 0713
Saba 0710 0885 0115 0607
Sabre 0455
Sagem 0820 1114 1253

Samsung	0863	1243	1343	0853	1206	1017
					1293	1292
SAT						0501
Sat Control						1300
Sat Partner						0501
Sat Team						0713
Satcom					0605	0607
Satec					0713	0834
Satline						0628
Satstation						1083
Schneider			0710	0668	0157	1206
Schwaiger		0605	0157	0607	0885	1111
					0132	1075
SCS					0115	0299
Seemann						0396
SEG			0605	0742	0114	1087
Seleco						0871
Septimo					1205	0885
Siemens						0173
Skantin						0713
Skinsat						0501
SKR						0713
Sky			0847	0856	0887	1014
SKY+						1175
Skymaster	0713	0605	0157	1200	1085	1075
0628						
Skymax						0200
SkySat				0157	0605	0713
SL					0132	0742
SM Electronic		0157	0713	1200	1075	1085
Smart	0132	0299	1101	0882	0396	1113
					0115	0713
Sony			0282	0847	0853	0455
SR						0132
Starland						0713
Strong		0879	0853	1105	1159	1300
Sunsat						0713
Sunstar						0132
Tantec						0455
Tatung						0455
Teac						1322
Tecatel						1200
TechniSat	0200	1099	1100	1195	0501	1322
Technosat						1206
Technowelt					0607	0885
Techsan						1017
Techwood						0114

Telasat					0605	0115	0607
Teleciel							1043
Telecom							0713
Telefunken							0710
Teleka			0396	0750	0501	0607	0834
Telesat						0605	0607
Telestar	0501	1099	1100	0114	0200	0157
Teletech							0114
Televes					0455	0501	0132
Thomson	0455	0713	0853	0115	0607	1291
			0820	0668	0710	1046
Thorn							0455
Tokai							0200
Tonna		0455	0668	0501	0713	0834
Topfield							1206
Toshiba							0455
TPS						0820	1253
Triasat							0501
Triax	0501	0115	0200	0396	0713	0853
			0114	1296	1291	0132
Turnsat							0713
Twinner						0132	0713
UEC							0879
Uher							0157
Unisat							0200
Universum		0173	0571	0607	0299	0115
						0742	1087
Van Hunen							0299
Variosat							0173
Ventana							0200
Vestel							0742
VH-Sat							0299
Viasat					1323	1023	0820
Visionic							1105
Visiosat						0710	0713
Wetekom					0157	0605	0501
Wewa							0455
Wisi	0173	0396	0299	0455	0501	0607
							0834
Worldsat				0710	0114	0123	0668
XCOM						0123	0668
XSat					0668	0713	0123
Xtreme							1300
YES							0887
Zehnder		1075	0742	0114	0115	0419
Zenith							0856
Zeta Technology							0200
Zinwell							1176

Cable Box (STB)

Austar		0276
BT		0003
Canal Plus		0443
Comcrypt		0443
Decsat		0423
Filmnet		0443
France Telecom		0817
General Instruments		0276
Jerrold	0003	0276
Kabelvision		0003
Macab		0817
Melita		0003
MNet		0443
Mr Zapp		0817
Noos		0817
NTL Cabletell		0276
Ono		1068
Optus	0276	1060
Pace	1068	1060
Philips	0817	0286
PVP Stereo Visual		0003
Sagem		0817
Tele+1		0443
Telepiu		0443
Tudi		0286
United Cable		0003
Visiopass		0817